

# **Bay Area Air Quality Management District**

939 Ellis Street  
San Francisco, CA 94109  
(415) 771-6000

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**FINAL**

## **MAJOR FACILITY REVIEW PERMIT**

**Issued To:**  
**Sonoma County Central Landfill**  
**Facility #A2254**

**Facility Address:**  
500 Mecham Road  
Petaluma, CA 94952

**Mailing Address:**  
575 Administration Drive, Room 117A  
Santa Rosa, CA 95403

**Responsible Official**  
Edward J. Walker, Director,  
Dept. of Transportation and Public Works  
(707) 527-2231

**Facility Contact**  
Alex Sebastian,  
Plant Site Manager  
(707) 792-4961

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**Type of Facility:** Municipal Solid Waste Landfill  
and Electrical Generation  
**Primary SIC:** 4953  
**Product:** Disposal Services and Electricity

BAAQMD Permit Division Contact:  
Carol S. Allen

**ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

Signed by Peter Hess for Ellen Garvey  
Ellen Garvey, Executive Officer/Air Pollution Control Officer

February 27, 2001  
Date

## TABLE OF CONTENTS

I.	STANDARD CONDITIONS .....	3
II.	EQUIPMENT LIST .....	7
III.	GENERALLY APPLICABLE REQUIREMENTS.....	9
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS.....	12
V.	SCHEDULE OF COMPLIANCE.....	53
VI.	PERMIT CONDITIONS.....	53
VII.	APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS .....	67
VIII.	TEST METHODS.....	98
IX.	GLOSSARY .....	103
X.	APPLICABLE STATE IMPLEMENTATION PLAN.....	107

## I. STANDARD CONDITIONS

### A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 11/15/00);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through 8/27/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 11/15/00);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on 5/17/00);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 5/17/00);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 2/25/99), and

BAAQMD Regulation 2, Rule 6 – Permits, Major Facility Review

(as amended by the District Board on 10/20/99).

### B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on February 27, 2001 and expires on January 31, 2006. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than July 31, 2005, and no earlier than January 31, 2005. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after** January 31, 2006. (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-

## **I. Standard Conditions**

issuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)

6. This permit does not convey any property rights of any sort, nor any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)

### **C. Requirement to Pay Fees**

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

### **D. Inspection and Entry**

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

### **E. Records**

Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

## **I. Standard Conditions**

### **F. Monitoring Reports**

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be February 27, 2001 to July 31, 2001. The report shall be submitted by August 31, 2001. Subsequent reports shall be for the following periods: August 1st through January 31st and February 1st through July 31st, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109  
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

### **G. Compliance Certification**

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be February 1st to January 31st. The certification shall be submitted by February 28th of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division  
USEPA, Region IX  
75 Hawthorne Street  
San Francisco, CA 94105  
Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

## **I. Standard Conditions**

### **H. Emergency Provisions**

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit caused by conditions beyond the permit holder's reasonable control by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, §4.8)
3. Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

### **I. Severability**

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

## II. EQUIPMENT LIST

**Table II A – Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits.

S-#	Description	Make or Type	Model	Capacity
S-1	Sonoma County Central Landfill: (Active Solid Waste Disposal Site with Active Gas Collection System)	Accepting municipal, commercial, industrial, construction, designated, and special wastes.		Max. Design Capacity = 19.8 E6 yd <sup>3</sup> (15.1 E6 m <sup>3</sup> ) and 12.0 E6 tons (10.9 E6 Mg) Max. Waste Acceptance Rate = 2500 tons/day
	2 Blowers	Lampson	Model 859	100 hp, 868 scfm (each)
	2 Blowers	Lampson	Model 605	40 hp, 1736 scfm (each)
	Landfill Gas Collection System	Horizontal Collectors Vertical Wells		43 collectors 94 wells
S-4	Lean Burn Internal Combustion Engine and Generator Set	Caterpillar	3516 S.I.T.A.	1138 hp, 4210 in <sup>3</sup> displacement, 8.61 MM BTU/hr, 800 kWatts
S-5	Lean Burn Internal Combustion Engine and Generator Set	Caterpillar	3516 S.I.T.A.	1138 hp, 4210 in <sup>3</sup> displacement, 8.61 MM BTU/hr, 800 kWatts
S-6	Lean Burn Internal Combustion Engine and Generator Set	Caterpillar	3516 S.I.T.A.	1138 hp, 4210 in <sup>3</sup> displacement, 8.61 MM BTU/hr, 800 kWatts
S-7	Lean Burn Internal Combustion Engine and Generator Set	Caterpillar	3516 S.I.T.A.	1138 hp, 4210 in <sup>3</sup> displacement, 8.61 MM BTU/hr, 800 kWatts
S-9	Lean Burn Internal Combustion Engine and Generator Set	Caterpillar	3516 S.I.T.A.	1138 hp, 4210 in <sup>3</sup> displacement, 8.61 MM BTU/hr, 800 kWatts

## II. Equipment Lists

**Table II A – Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits.

S-#	Description	Make or Type	Model	Capacity
S-10	Lean Burn Internal Combustion Engine and Generator Set	Caterpillar	3516 S.I.T.A.	1138 hp, 4210 in <sup>3</sup> displacement, 8.61 MM BTU/hr, 800 kWatts
S-11	Lean Burn Internal Combustion Engine and Generator Set	Caterpillar	3516 S.I.T.A.	1138 hp, 4210 in <sup>3</sup> displacement, 8.61 MM BTU/hr, 800 kWatts
S-12	Lean Burn Internal Combustion Engine and Generator Set	Caterpillar	3516 S.I.T.A.	1138 hp, 4210 in <sup>3</sup> displacement, 8.61 MM BTU/hr, 800 kWatts

**Table II-B  
Abatement Device List**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Required Efficiency
A-2	Landfill Gas Flare, John Zinc ZTOF, 52.1 MM BTU/hr	S-1	See Table IV-D	See Table VII-D	See Table VII-D
A-8	Water Sprays, custom design	S-1	Condition # 4044, part 2	Ringelmann 0.5	



### III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit.

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is included in Appendix A of this permit if the SIP requirement is different from the current BAAQMD requirement.

**NOTE:**

There are differences between the current BAAQMD rule and the version of the rule in the SIP. For specific information, contact the District's Rule Development Section of the Enforcement Division. All sources must comply with both versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

**Table III  
Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)	N
SIP Regulation 1	General Provisions and Definitions (8/27/99)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	Y
SIP Regulation 4	Air Pollution Episode Plan (8/6/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y

### III. Generally Applicable Requirements

**Table III**  
**Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/4/98)	N
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (2/18/98)	Y <sup>1</sup>
BAAQMD Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (9/16/98)	N
SIP Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (12/9/94)	Y <sup>1</sup>
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y <sup>1</sup>
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (1/7/98)	N
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants - Lead (3/17/82)	N
SIP Regulation 11, Rule 1	Hazardous Pollutants - Lead (9/2/81)	Y <sup>1</sup>
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants – Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y <sup>1</sup>
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions	Y
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	
Subpart F, 40 CFR 82.154	Prohibitions	Y
Subpart F, 40 CFR 82.156	Required Practices	Y
Subpart F, 40 CFR 82.158	Standards for Recycling and Recovery Equipment	Y
Subpart F, 40 CFR 82.161	Technician Certification	Y
Subpart F, 40 CFR 82.162	Certification by Owners of Recovery and Recycling Equipment	Y
Subpart F, 40 CFR 82.166	Reporting and Recordkeeping Requirements	Y

### **III. Generally Applicable Requirements**

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved the District's revision of the regulation.

#### IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board.
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date.

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is included in Appendix A of this permit if the SIP requirements are different from the current BAAQMD requirements. All other text may be found in the regulations themselves.

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (11/15/00)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	7/1/02
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	7/1/02
1-523.2	Limit on duration of inoperation	Y	7/1/02
1-523.3	Reporting requirement for violations of any applicable limits	Y	7/1/02
1-523.4	Records of inoperation, tests, calibrations, adjustments, & Maintenance	Y	7/1/02
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	

## IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 8, Rule 2</b>	<b>Organic Compounds – Miscellaneous Operations (6/15/94)</b>		
8-2-301	Miscellaneous Operations	Y	
<b>BAAQMD Regulation 8, Rule 34</b>	<b>Organic Compounds – Solid Waste Disposal Sites (10/6/99)</b>		
8-34-113	Limited Exemption, Inspection and Maintenance	N	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	N	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-116	Limited Exemption, Well Raising	N	
8-34-116.1	New Fill	N	
8-34-116.2	Limits on Number of Wells Shutdown	N	
8-34-116.3	Shutdown Duration Limit	N	
8-34-116.4	Capping Well Extensions	N	
8-34-116.5	Well Disconnection Records	N	
8-34-117	Limited Exemption, Gas Collection System Components	N	
8-34-117.1	Necessity of Existing Component Repairs/Adjustments	N	
8-34-117.2	New Components are Described in Collection and Control System Design Plan	N	
8-34-117.3	Meets Section 8-34-118 Requirements	N	
8-34-117.4	Limits on Number of Wells Shutdown	N	
8-34-117.5	Shutdown Duration Limit	N	
8-34-117.6	Well Disconnection Records	N	
8-34-118	Limited Exemption, Construction Activities	N	
8-34-118.1	Construction Plan	N	
8-34-118.2	Activity is Required to Maintain Compliance with this Rule	N	
8-34-118.3	Required or Approved by Other Enforcement Agencies	N	
8-34-118.4	Emission Minimization Requirement	N	
8-34-118.5	Excavated Refuse Requirements	N	
8-34-118.6	Covering Requirements for Exposed Refuse	N	
8-34-118.7	Installation Time Limit	N	

#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-118.8	Capping Required for New Components	N	
8-34-118.9	Construction Activity Records	N	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	N	
8-34-301.1	Continuous Operation	N	
8-34-301.2	Collection and Control Systems Leak Limitations	N	
8-34-303a	Landfill Surface Requirements	Y	Expires 7/1/02
8-34-303b	Landfill Surface Requirements	N	7/1/02
8-34-304	Gas Collection System Installation Requirements	N	
8-34-304.1	Based on Waste Age For Inactive or Closed Areas	N	
8-34-304.2	Based on Waste Age For Active Areas	N	
8-34-304.3	Based on Amount of Decomposable Waste Accepted	N	
8-34-304.4	Based on NMOC Emission Rate	N	7/1/02
8-34-305	Wellhead Requirements	N	7/1/02
8-34-305.1	Operate Under Vacuum	N	7/1/02
8-34-305.2	Temperature < 55 °C	N	7/1/02
8-34-305.3	Nitrogen < 20% or	N	7/1/02
8-34-305.4	Oxygen < 5%	N	7/1/02
8-34-405	Design Capacity Reports	N	
8-34-406	Initial NMOC Emission Rate Reports	N	
8-34-407	Periodic NMOC Emission Rate Reports	N	10/6/00
8-34-408	Collection and Control System Design Plans	N	10/6/00
8-34-408.1	Sites With NMOC Emission Rate > 50 Mg/year	N	10/6/00
8-34-408.2	Sites With Existing Collection and Control Systems	N	10/6/00
8-34-411	Annual Report	N	10/6/00
8-34-412	Compliance Demonstration Tests	N	7/1/02
8-34-413	Performance Test Report	N	7/1/02
8-34-414	Repair Schedule for Wellhead Excesses	N	7/1/02
8-34-414.1	Records of Excesses	N	7/1/02
8-34-414.2	Corrective Action	N	7/1/02
8-34-414.3	Collection System Expansion	N	7/1/02
8-34-414.4	Operational Due Date for Expansion	N	7/1/02

#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-415	Repair Schedule for Surface Leak Excesses	N	7/1/02
8-34-415.1	Records of Excesses	N	7/1/02
8-34-415.2	Corrective Action	N	7/1/02
8-34-415.3	Re-monitor Excess Location Within 10 Days	N	7/1/02
8-34-415.4	Re-monitor Excess Location Within 1 Month	N	7/1/02
8-34-415.5	If No More Excesses, No Further Re-Monitoring	N	7/1/02
8-34-415.6	Additional Corrective Action	N	7/1/02
8-34-415.7	Re-monitor Second Excess Within 10 days	N	7/1/02
8-34-415.8	Re-monitor Second Excess Within 1 Month	N	7/1/02
8-34-415.9	If No More Excesses, No Further Re-monitoring	N	7/1/02
8-34-415.10	Collection System Expansion for Third Excess in a Quarter	N	7/1/02
8-34-415.11	Operational Due Date for Expansion	N	7/1/02
8-34-416	Cover Repairs	N	
8-34-501	Operating Records	N	
8-34-501.1	Collection System Downtime	N	
8-34-501.4	Testing	N	
8-34-501.6	Leak Discovery and Repair Records	N	
8-34-501.7	Waste Acceptance Records	N	
8-34-501.8	Non-decomposable Waste Records	N	
8-34-501.9	Wellhead Excesses and Repair Records	N	7/1/02
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	N	7/1/02
8-34-501.12	Records Retention for 5 Years	N	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-505	Well Head Monitoring	N	8/1/02
8-34-506	Landfill Surface Monitoring	N	10/1/02
8-34-508	Gas Flow Meter	N	7/1/02
8-34-510	Cover Integrity Monitoring	N	8/1/02
<b>SIP Regulation 8, Rule 34</b>	<b>Organic Compounds – Solid Waste Disposal Sites (3/22/95)</b>		
8-34-113	Exemption, Inspection and Maintenance	Y	

## IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y <sup>1</sup>	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Collection and Control Systems Leak Limitations	Y	
8-34-301.4	Continuous Operation	Y	
8-34-303	Landfill Surface Requirement	Y <sup>1</sup>	
8-34-501	Operating Records	Y	
8-34-501.1	Collection System Downtime	Y	
8-34-501.4	Records of Testing for Compliance with 8-34-111.3 or 301	Y	
8-34-501.6	Records Retention	Y	
8-34-503	Landfill Gas Collection System Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
<b>BAAQMD Regulation 8, Rule 40</b>	<b>Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)</b>		
8-40-110	Exemption, Storage Pile	Y	
8-40-112	Exemption, Sampling	Y	
8-40-113	Exemption, Non-Volatile Hydrocarbons	Y	
8-40-116	Exemption, Small Volume	N	
8-40-116.1	Volume does not exceed 1 cubic yard	N	
8-40-116.2	Volume does not exceed 8 cubic yards, organic content does not exceed 500 ppmw, may be used only once per quarter	N	
8-40-117	Exemption, Accidental Spills	N	
8-40-118	Exemption, Aeration Projects of Limited Impact	N	
8-40-301	Uncontrolled Contaminated Soil Aeration	N	
8-40-304	Active Storage Piles	N	
8-40-305	Inactive Storage Piles	N	
<b>SIP Regulation 8, Rule 40</b>	<b>Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/94)</b>		
8-40-110	Exemption, Storage Pile	Y	
8-40-112	Exemption, Sampling	Y	



## IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-40-113	Exemption, Non-Volatile Hydrocarbons	Y	
8-40-301	Uncontrolled Aeration	Y <sup>1</sup>	
8-40-302	Controlled Aeration	Y <sup>1</sup>	
8-40-303	Storage Piles	Y <sup>1</sup>	
8-40-403	Reporting, Aeration of Contaminated Soil	Y	
8-40-403.1	Total Quantity of Soil to be Aerated	Y	
8-40-403.2	Quantity of Soil to be Aerated per Day	Y	
8-40-403.3	Average Degree of Contamination or Total Organic Content in Soil	Y	
8-40-403.4	Chemical Composition of Contaminating Organics	Y	
8-40-403.5	Basis for Above Estimations	Y	
<b>BAAQMD Regulation 9, Rule 2</b>	<b>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)</b>		
9-2-301	Limitations on Hydrogen Sulfide	N	
<b>BAAQMD Regulation 11, Rule 1</b>	<b>Hazardous Pollutants – Lead (3/17/82)</b>		
11-1-302	Ground Level Concentration Limit Without Background	Y	
<b>BAAQMD Regulation 11, Rule 3</b>	<b>Hazardous Pollutants – Beryllium (3/17/82)</b>		
11-3-301	Emission Limitation	N	
11-3-303	Ambient Concentration Limits	N	
<b>BAAQMD Regulation 11, Rule 14</b>	<b>Hazardous Pollutants – Asbestos-Containing Serpentine (7/17/91)</b>		
11-14-301	Prohibition of Use for Surfacing Operations	N	
11-14-501	Maintenance of Records	N	
<b>40 CFR Part 60, Subpart A</b>	<b>Standards of Performance for New Stationary Sources – General Provisions (5/4/98)</b>		
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other	Y	

#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Correspondence to the Administrator		
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operational before performing Performance Tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
<b>40 CFR Part 60, Subpart Cc</b>	<b>Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/99)</b>		
60.32c	Designated Facilities	Y	
60.32c(a)	Construction or Modification Commenced before 5/30/91	Y	
60.32c(b)	Physical or Operational Changes Made in Order to Comply are not Considered Modifications	Y	
60.32c(c)	Title V Applicability and Subject Date	Y	
60.36c	Compliance Times	Y	
60.36c(a)	Collection and Control Systems in Compliance by 30 months After Initial NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	
60.36c(b)	Collection and Control Systems in Compliance by 30 months After Annual NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	

#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>40 CFR Part 60, Subpart WWW</b>	<b>Standards of Performance for New Stationary Sources – Standards of Performance for Municipal Solid Waste Landfills (2/24/99)</b>		
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(a)	Initial Design Capacity Report Requirement for MSW Landfills with Design Capacity less than 2.5 million Mg <b>or</b> less than 2.5 million m <sup>3</sup> (Small Designated Facilities)	Y	4/6/00
60.752(a)(1)	Amended Design Capacity Report Requirement	Y	
60.752(a)(2)	Requirements Resulting from an Amended Design Capacity	Y	
60.752(b)	Requirements for MSW Landfills with Design Capacity equal to or greater than 2.5 million Mg <b>and</b> 2.5 million m <sup>3</sup> (Large Designated Facilities)	Y	
60.752(b)(1)	Requirements for Large Designated Facilities with Calculated NMOC Emissions of less than 50 Mg/Year	Y	
60.752 (b)(1)(i)	Submit Annual Emission Report	Y	4/6/01
60.752 (b)(1)(ii)	Recalculate NMOC Emissions Annually until NMOC Emissions > 50 Mg/year or Landfill is Closed	Y	4/6/01
60.752 (b)(1)(ii)(A)	If NMOC > 50 Mg/year, comply with 60.752(b)(2)	Y	
60.752 (b)(1)(ii)(B)	If landfill is permanently closed, submit closure notice to comply with 60.757(d)	Y	
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	
60.752 (b)(2)(i)	Submit a Collection and Control System Design Plan	Y	4/6/01
60.752 (b)(2)(i)(A)	The collection and control system in the Design Plan shall comply with 60.752(b)(2)(ii)	Y	
60.752 (b)(2)(i)(B)	Design Plan shall include all proposed alternatives to 60.753 through 60.758	Y	
60.752 (b)(2)(i)(C)	Design Plan shall conform to 60.759 (active collection system) or demonstrate sufficiency of proposed alternatives	Y	
60.752	Install a collection and control system	Y	10/6/02

## IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
(b)(2)(ii)			
60.752 (b)(2)(iii)	Route collected gases to a control system.	Y	10/6/02
60.752 (b)(2)(iv)	Operate in accordance with 60.753, 60.755, and 60.756	Y	10/6/02
60.753	Operational Standards for Collection and Control Systems	Y	10/6/02
60.753(a)	Operate a Collection System in each area or cell in which:	Y	10/6/02
60.753(a)(1)	Active Cell – solid waste in place for 5 years or more	Y	10/6/02
60.753(a)(2)	Closed/Final Grade – solid waste in place for 2 years or more	Y	10/6/02
60.753(b)	Operate each wellhead under negative pressure unless:	Y	10/6/02
60.753(b)(1)	Fire or increased well temperature or to prevent fire	Y	10/6/02
60.753(b)(2)	Use of geomembrane or synthetic cover (subject to alternative Pressure limits)	Y	10/6/02
60.753(b)(3)	Decommissioned well after approval received for shut-down	Y	10/6/02
60.753(c)	Operate each wellhead at < 55 °C, and either < 20% N <sub>2</sub> or < than 5% O <sub>2</sub> (or other approved alternative levels)	Y	10/6/02
60.753(c)(1)	N <sub>2</sub> determined by Method 3C	Y	10/6/02
60.753(c)(2)	O <sub>2</sub> determined by 3A and as described in (2)(i-v)	Y	10/6/02
60.753(d)	Surface Leak Limit is less than 500 ppm methane above Background at landfill surface. This section also describes some Surface monitoring procedures.	Y	10/6/02
60.753(e)	Vent all collected gases to a control system complying with 60.752(b)(2)(iii). If collection or control system inoperable, shut down gas mover and close all vents within 1 hour	Y	10/6/02
60.753(g)	If monitoring demonstrates that 60.753(b), (c), or (d) are not Being met, corrective action must be taken	Y	10/6/02
60.754	Test Methods and Procedures	Y	
60.754(a)	NMOC Calculation Procedures for NMOC Emission Rate Reports and Comparison to 50 Mg/Year Standard	Y	
60.654(a)(1)	Calculate NMOC Emission Rate using either or both of the equations in 60.754(a)(1)(i-ii) with the listed default values	Y	4/6/00
60.754 (a)(1)(i)	Equation for known year-to-year waste acceptance rate	Y	

## IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.754 (a)(1)(ii)	Equation for unknown year-to-year waste acceptance rate	Y	
60.754(a)(2)	Tier 1 - compare calculated NMOC emission rate to 50 Mg/year	Y	4/6/00
60.754 (a)(2)(i)	If NMOC Emission Rate < 50 Mg/Year, submit NMOC emission rate report and recalculate NMOC emissions annually	Y	4/6/00
60.754 (a)(2)(ii)	If NMOC Emission Rate $\geq$ 50 Mg/year, comply with 60.752(b)(2) or determine a site specific NMOC concentration and follow 60.754(a)(3).	Y	4/6/00
60.754(a)(3)	Tier 2 – determine site specific NMOC Concentration using Methods 18 or 25C	Y	
60.754 (a)(3)(i)	Recalculate NMOC Emission Rate using site specific NMOC concentration data	Y	
60.754 (a)(3)(ii)	If NMOC Emission Rate $\geq$ 50 Mg/year, comply with 60.752(b)(2) or determine a site specific methane generation rate constant and follow 60.754(a)(4).	Y	
60.754 (a)(3)(iii)	If NMOC Emission Rate < 50 Mg/Year, submit NMOC Emission rate report, recalculate NMOC emissions annually, retest for NMOC Concentration every 5 years.	Y	
60.754(a)(4)	Tier 3 – determine site specific methane generation rate Constant using Method 2E and recalculate NMOC Emission Rate using site specific NMOC Concentration and site specific Methane Generation Rate Constant	Y	
60.754 (a)(4)(i)	If NMOC Emission Rate $\geq$ 50 Mg/year, comply with 60.752(b)(2).	Y	
60.754 (a)(4)(ii)	If NMOC Emission Rate < 50 Mg/Year, submit NMOC emission rate report, recalculate NMOC emissions annually, retest for NMOC Concentration every 5 years.	Y	
60.754(a)(5)	Allows use of alternative calculation methods if approved by EPA	Y	
60.754(c)	For PSD, NMOC emissions shall be calculated using AP-42	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	

#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.755	Compliance Provisions	Y	
60.755(a)	For Gas Collection Systems	Y	
60.755(a)(1)	Calculation Procedures for Maximum Expected Gas Generation Flow Rate	Y	
60.755(a)(1)(i)	Equation for unknown year-to-year waste acceptance rate	Y	
60.755(a)(1)(ii)	Equation for known year-to-year waste acceptance rate	Y	
60.755(a)(1)(iii)	For closed or inactive and full sites with gas collection systems, actual flow rates may be used	Y	
60.755(a)(2)	Vertical wells and horizontal collectors shall be of sufficient density to meet all performance specifications	Y	10/6/02
60.755(a)(3)	Measure wellhead pressure monthly. If pressure is positive, take corrective action (final corrective action = expand system within 120 days of initial positive pressure reading)	Y	10/6/02
60.755(a)(4)	Expansion not required during first 180 days after startup.	Y	
60.755(a)(5)	Monitor wellheads monthly for temperature and either nitrogen or oxygen. If readings exceed limits, take corrective action up to expanding system within 120 days of first excess.	Y	10/6/02
60.755(b)	Wells shall be placed in cells as described in design plan And no later than 60 days after:	Y	10/6/02
60.755(b)(1)	Five years after initial waste placement in cell, for active cells	Y	10/6/02
60.755(b)(2)	Two years after initial waste placement in cell, for closed/final grade cells.	Y	10/6/02
60.755(c)	Procedures for complying with surface methane standard	Y	10/6/02
60.755(c)(1)	Quarterly monitoring of surface and perimeter	Y	10/6/02
60.755(c)(2)	Procedure for determining background concentration	Y	10/6/02
60.755(c)(3)	Method 21 except probe inlet placed 5-10 cm above ground	Y	10/6/02
60.755(c)(4)	Excess is any reading of 500 ppmv or more. Take corrective action indicated below (i-v).	Y	10/6/02
60.755(c)(4)(i)	Mark and record location of excess	Y	10/6/02
60.755	Repair cover or adjust vacuum.	Y	10/6/02

#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
(c)(4)(ii)	Re-monitor within 10 calendar days.		
60.755 (c)(4)(iii)	If still exceeding 500 ppmv, take additional corrective action. Re-monitor within 10 calendar days of 2 <sup>nd</sup> excess.	Y	10/6/02
60.755 (c)(4)(iv)	Re-monitor within 1 month of initial excess.	Y	10/6/02
60.755 (c)(4)(v)	For any location with 3 monitored excesses in a quarter, additional collectors (or other approved collection system repairs) shall be operational within 120 days of 1 <sup>st</sup> excess.	Y	10/6/02
60.755(c)(5)	Monitor cover integrity monthly and repair as needed.	Y	10/6/02
60.755(d)	Instrumentation and procedures for complying with 60.755(c).	Y	
60.755(d)(1)	Portable analyzer meeting Method 21	Y	
60.755(d)(2)	Calibrated with methane diluted to 500 ppmv in air	Y	
60.755(d)(3)	Use Method 21, Section 4.4 instrument evaluation procedures	Y	
60.755(d)(4)	Calibrate per Method 21, Section 4.2 immediately before monitoring.	Y	
60.755(e)	Provisions apply at all times except during startup, shutdown, or Malfunction, provided the duration of these shall not exceed 5 Days for collection systems or 1 hour for control systems.	Y	10/6/02
60.756	Monitoring of Operations	Y	10/6/02
60.756(a)	For active collection systems, install wellhead sampling port	Y	10/6/02
60.756(a)(1)	Measure gauge pressure in wellhead on a monthly basis	Y	10/6/02
60.756(a)(2)	Measure nitrogen or oxygen concentration in wellhead gas on a monthly basis.	Y	10/6/02
60.756(a)(3)	Measure temperature of wellhead gas on a monthly basis.	Y	10/6/02
60.756(b)(2)	Device that records flow to or bypass of the control device (i or ii below)	Y	10/6/02
60.756 (b)(2)(i)	Install, calibrate, and maintain a device that records flow to the control device at least every 15 minutes.	Y	10/6/02
60.756 (b)(2)(ii)	Secure a bypass valve in closed position with a lock-and-key configuration and inspect seal and lock monthly.	Y	10/6/02
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.756(f)	Monitor surface on a quarterly basis. Closed landfills with no monitored exceedences in 3 consecutive quarters may reduce	Y	10/6/02

#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	monitoring frequency to an annual basis		
60.757	Reporting Requirements	Y	
60.757(a)	Submit an Initial Design Capacity Report	Y	4/6/00
60.757(a)(1)	Initial Design Capacity Report fulfills 60.7(a)(1) construction date notification requirement.	Y	
60.757(a)(2)	Initial Design Capacity Report Shall Contain:	Y	
60.757(a)(2)(i)	Map indicating size and location of site and all areas where waste may be placed.	Y	
60.757(a)(2)(ii)	Permit or other documentation that indicates the maximum Design capacity.	Y	
60.757(a)(3)	Amended Design Capacity Report required within 90 days of Receiving a permitted increase in design capacity or within 90 Days of an annual density calculation that results in a design Capacity over the thresholds.	Y	
60.757(b)	Submit Initial and Annual NMOC Emission Rate Report	Y	4/6/00
60.757(b)(3)	Sites with Collection and Control Systems operating in Compliance with this subpart are exempt from periodic NMOC emission rate reporting requirements.	Y	
60.757(c)	Submit a Collection and Control System Design Plan within 1 year of first NMOC emission rate report showing NMOC > 50 MG/year, except as follows	Y	4/6/01
60.757(f)	Submit Annual Reports containing information required by (f)(1) through (f)(6)	Y	
60.757(f)(1)	Value and length of time for exceedance of parameters Monitored per 60.756(a), (b) or (d)	Y	
60.757(f)(2)	Description and duration of all periods when gas is diverted From the control device by a by-pass line	Y	
60.757(f)(3)	Description and duration of all periods when control device was not operating for more than 1 hour	Y	
60.757(f)(4)	All periods when collection system was not operating for more than 5 days.	Y	
60.757(f)(5)	Location of each surface emission excess and all re-monitoring dates and concentrations.	Y	



#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.757(f)(6)	Location and installation dates for any wells or collectors added as a result of corrective action for a monitored excess.	Y	
60.757(g)	Initial Performance Test Report Requirements (g)(1-6)	Y	4/4/03
60.757(g)(1)	Diagram of collection system showing positions of all existing collectors, proposed positions for future collectors, and areas to be excluded from control.	Y	
60.757(g)(2)	Basis for collector positioning to meet sufficient density requirement	Y	
60.757(g)(3)	Documentation supporting percentage of asbestos or non-degradable material claims for areas without a collection system.	Y	
60.757(g)(4)	For areas excluded from collection due to non-productivity, calculations and gas generation rates for each non-productive area and the sum for all nonproductive areas.	Y	
60.757(g)(5)	Provisions for increasing gas mover equipment if current system inadequate to handle maximum projected gas flow rate.	Y	
60.757(g)(6)	Provisions for control of off-site migration	Y	
60.758	Recordkeeping Requirements	Y	
60.758(a)	Design Capacity and Waste Acceptance Records (retain 5 years)	Y	10/6/02
60.758(b)	Collection and Control Equipment Records (retain for life of Control equipment except 5 years for monitoring data)	Y	10/6/02
60.758(b)(1)	Collection System Records	Y	10/6/02
60.758(b)(1)(i)	Maximum expected gas generation flow rate.	Y	10/6/02
60.758(b)(1)(ii)	Density of wells and collectors	Y	10/6/02
60.758(c)	Records of parameters monitored pursuant to 60.756 and periods of operation when boundaries are exceeded (retain for 5 years).	Y	10/6/02
60.758(c)(2)	Records of continuous flow to control device or monthly Inspection records if seal and lock for bypass valves	Y	10/6/02
60.758(d)	Plot map showing location of all existing and planned collectors With a unique label for each collector (retain for life of collection system)	Y	10/6/02

#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.758(d)(1)	Installation date and location of all newly installed collectors	Y	10/6/02
60.758(d)(2)	Records of nature, deposition date, amount, and location of asbestos or non-degradable waste excluded from control	Y	10/6/02
60.758(e)	Records of any exceedance of 60.753, location of exceedance and re-monitoring dates and data (for wellheads and surface). Retain for 5 years.	Y	10/6/02
60.759	Specifications for Active Collection Systems	Y	
60.759(a)	Active wells and collectors shall be at sufficient density	Y	
60.759(a)(1)	Collection System in refuse shall be certified by PE to achieve Comprehensive control of surface gas emissions	Y	
60.759(a)(2)	Collection Systems (active or passive) outside of refuse shall address migration control	Y	
60.759(a)(3)	All gas producing areas shall be controlled except as Described below (i-iii).	Y	
60.759 (a)(3)(i)	Any segregated area of asbestos or non-degradable Material only may be excluded, if documented adequately per 60.758(d).	Y	
60.759 (a)(3)(ii)	Any non-productive areas may be excluded from control, provided total NMOC emissions from all excluded areas is < 1% of total NMOC emissions from landfill. Document amount, location, and age of waste and all calculations for each excluded area.	Y	
60.759 (a)(3)(iii)	For calculating NMOC emissions, values for k and concentration of NMOC that have been previously approved shall be used or defaults if no values were approved. All non-degradable wastes that are being subtracted from total wastes for NMOC calculations must be documented adequately.	Y	
60.759(b)	Gas Collection System Components	Y	
60.759(b)(1)	Must be constructed of PVC, HDPE, fiberglass, stainless steel, or other approved material and of suitable dimensions to convey projected gas amounts and withstand settling, traffic,	Y	

#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	etc.		
60.759(b)(2)	Collectors shall not endanger liner, shall manage condensate and leachate, and shall prevent air intrusion and surface leaks.	Y	
60.759(b)(3)	Header connection assemblies shall include positive closing throttle valve, seals and couplings to prevent leaks, at least one sampling port, and shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other approved materials.	Y	
60.759(c)	Gas Mover Equipment shall be sized to handle maximum expected gas generation rate over the intended period of use.	Y	
60.759(c)(1)	For existing systems, flow data shall be used to project maximum flow rate.	Y	
60.759(c)(2)	For new systems, shall be calculated per 60.755(a)(1)	Y	
<b>40 CFR Part 62, Subpart GGG</b>	<b>Approval and Promulgation of State Plans for Designated Facilities and Pollutants – Federal Plan Requirements for Municipal Solid Waste Landfills that Commenced Construction Prior to May 30, 1991 and Have Not Been Modified or Reconstructed Since May 30, 1991 (11/8/99)</b>		
62.14352	Designated Facilities	Y	
62.14352(a)	MSW Landfills Meeting 62.14352(a)(1) and (a)(2)	Y	
62.14352(a)(1)	Commenced construction, reconstruction, or modification before May 30, 1991	Y	
62.14352(a)(2)	Accepted waste since November 8, 1987 or has additional design capacity available	Y	
62.14352(d)	Changes made to comply with EG are not a “modification” and do not subject a landfill to 40 CFR Part 60, Subpart WWW	Y	
62.14352(e)	Title V Operating Permit Requirements	Y	4/6/00
62.14353	Standards for Municipal Solid Waste Landfill Emissions	Y	
62.14353(b)	Landfills with Design Capacity equal to or greater than 2.5 million Mg and 2.5 million m <sup>3</sup> (Large Designated Facilities) must comply with 40 CFR 60.752(b)	Y	
62.14354	Procedures, Test Methods, and Monitoring	Y	
62.14354(a)	Large Designated Facilities must calculate the NMOC emission rate using procedures in 40 CFR 60.754	Y	

## IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
62.14354(b)	A gas collection and control system used to comply with 62.14353(b) must comply with 40 CFR 60.753, 60.754(b) and (d), 60.755, and 60.756.	Y	
62.14355	Reporting and Recordkeeping Requirements	Y	
62.14355(a)	Designated Facilities must comply with 40 CFR 60.757 and 60.758 accept as provided in 62.14355(a)(1) and (a)(2)	Y	
62.14355(a)(1)	Initial Design Capacity is Due 4/6/00	Y	4/6/00
62.14355(a)(2)	Initial NMOC Emission Rate Report is Due 4/6/00	Y	4/6/00
62.14355(b)	Notification Requirement for Increments of Progress	Y	
62.14355(b)(1)	For first increment of progress, include final control plan with the notification	Y	4/6/01
62.14355(b)(2)	For second increment of progress, include signed copy of Construction contracts with notification	Y	12/6/01
62.14355(c)	Notification Requirement for Failure to Meet an Increment of Progress	Y	
62.14356	Compliance Schedules and Increments of Progress	Y	
62.14356(a)	Increments of Progress for Large Designated Facilities with NMOC Emissions Greater Than 50 Mg/year	Y	
62.14356(a)(1)	Increment 1 - Submit final control plan	Y	4/6/01
62.14356(a)(2)	Increment 2 - Award contracts for construction of any new Equipment or for modifications necessary to meet control plan	Y	12/6/01
62.14356(a)(3)	Increment 3 - Initiate on-site construction	Y	4/6/02
62.14356(a)(4)	Increment 4 – Complete on-site construction	Y	10/6/02
62.14356(a)(5)	Increment 5 – Achieve final compliance	Y	10/6/02
62.14356(b)	Final compliance must be achieved within 30 months of the first Report showing NMOC emissions > 50 Mg/year	Y	10/6/02
62.14356(c)	Compliance schedules	Y	

#### IV. Source-specific Applicable Requirements

**Table IV – A**  
**Source-specific Applicable Requirements**  
**S1 – SONOMA COUNTY CENTRAL LANDFILL**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
62.14356 (c)(1)	Achieve increments of progress according to Table 3 of this Section	Y	
<b>BAAQMD Condition # 4044</b>			
Part 1	Refuse acceptance limits (Cumulative Increase and 2-1-301)	Y	
Part 2	Dust emission limits (BACT and 1-301)	Y	
Part 3	Public nuisance consequences (1-301)	N	
Part 4	Authority to Construct requirement for collection system modifications (2-1-301)	Y	
Part 4.a.	Minimum Collection System Description (8-34-301.1)	Y	
Part 4.b.	New Collection System Requirements (8-34-304)	N	
Part 5	Continuous operation requirement (8-34-301.1)	Y	
Part 6	Limits on concentrations of toxic air contaminants in landfill gas (TRMP)	N	
Part 8	Prohibition on venting raw landfill gas to the atmosphere (8-34-301)	Y	
Part 15	Test Requirements for toxic air contaminants in landfill gas (TRMP)	N	
Part 17, subparts a.-h., and m.-p.	Record keeping requirements (Cumulative Increase, 6-301, 6-305, 8-34-304, 8-34-501.3, and 8-34-501.8)	Y	
Part 18, subparts a.-l.	Handling Procedures for Soil Containing Volatile Organic Compounds (8-40-301, 8-40-304 and 8-40-305)	N	
Part 19, subparts a.-c.	Contaminated Soil Throughput Limit and Records (8-2-301)	Y	
Part 20	Permit Application and Gas Collection System Expansion Requirements (Docket No. 2656)	N	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

## IV. Source-specific Applicable Requirements

**Table IV-B**  
**Source-specific Applicable Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/17/00)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	7/1/02
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	7/1/02
1-523.2	Limit on duration of inoperation	Y	7/1/02
1-523.3	Reporting requirement for violations of any applicable limits	Y	7/1/02
1-523.4	Records of inoperation, tests, calibrations, adjustments, & Maintenance	Y	7/1/02
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 8, Rule 34</b>	<b>Organic Compounds - Solid Waste Disposal Sites (10/6/99)</b>		
8-34-113	Limited Exemption, Inspection and Maintenance	N	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	N	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-114	Limited Exemption, Energy Recovery Device and Emission Control System	Y	Expires 7/1/02 (exp. date not FE)
8-34-301	Landfill Gas Collection and Emission Control System Requirements	N	
8-34-301.1	Continuous Operation	N	
8-34-301.2	Collection and Control Systems Leak Limitations	N	
8-34-301.4b	Limits for Other Emission Control Systems	N	7/1/02
8-34-408	Collection and Control System Design Plans	N	
8-34-408.2	Sites With Existing Collection and Control Systems	N	

## IV. Source-specific Applicable Requirements

**Table IV-B**  
**Source-specific Applicable Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-410	Equipment Removal Report	N	
8-34-411	Annual Report	N	
8-34-412	Compliance Demonstration Tests	N	
8-34-413	Performance Test Report	N	
8-34-501	Operating Records	N	
8-34-501.2	Emission Control System Downtime	N	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors	N	7/1/02
8-34-501.4	Testing	N	
8-34-501.6	Leak Discovery and Repair Records	N	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	N	7/1/02
8-34-501.12	Records Retention for 5 Years	N	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-507	Continuous Temperature Monitor and Recorded	N	7/1/02
8-34-508	Gas Flow Meter	N	7/1/02
<b>SIP Regulation 8, Rule 34</b>	<b>Organic Compounds - Solid Waste Disposal Sites (6/15/94)</b>		
8-34-113	Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y <sup>1</sup>	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-114	Limited Exemption, Energy Recovery Device and Emission Control System	Y <sup>1</sup>	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Collection and Control Systems Leak Limitations	Y	
8-34-301.4	Continuous Operation	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Records of Testing for Compliance with 8-34-111.3 or 301	Y	
8-34-501.6	Records Retention	Y	
8-34-503	Landfill Gas Collection System Testing	Y	

#### IV. Source-specific Applicable Requirements

**Table IV-B**  
**Source-specific Applicable Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-504	Portable Hydrocarbon Detector	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
<b>BAAQMD Regulation 9, Rule 2</b>	<b>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)</b>		
9-2-301	Limitations on Hydrogen Sulfide	N	
<b>BAAQMD Regulation 9 Rule 8</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)</b>		
9-8-301	Emission Limits - Fossil Derived Fuel Gas	Y	
9-8-301.2	Lean-Burn Engines: NOx Emission Limit	Y	
9-8-301.3	CO Emission Limit	Y	
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	Lean-Burn Engines: NOx Emission Limit	Y	
9-8-302.3	CO Emission Limit	Y	
<b>40 CFR Part 60, Subpart A</b>	<b>Standards of Performance for New Stationary Sources – General Provisions (5/4/98)</b>		
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operation before performing	Y	



#### IV. Source-specific Applicable Requirements

**Table IV-B**  
**Source-specific Applicable Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Performance Tests		
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
<b>40 CFR Part 60, Subpart Cc</b>	<b>Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/99)</b>		
60.32c	Designated Facilities	Y	
60.32c(a)	Construction or Modification Commenced before 5/30/91	Y	
60.32c(b)	Physical or Operational Changes Made in Order to Comply are not Considered Modifications	Y	
60.32c(c)	Title V Applicability and Subject Date	Y	
60.32c(d)	Criteria for Ceasing Title V Applicability for Closed Landfills	Y	
60.36c	Compliance Times	Y	
60.36c(a)	Collection and Control Systems in Compliance by 30 months After Initial NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	
60.36c(b)	Collection and Control Systems in Compliance by 30 months After Annual NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	
<b>40 CFR Part 60, Subpart WWW</b>	<b>Standards of Performance for New Stationary Sources – Standards of Performance for Municipal Solid Waste Landfills (2/24/99)</b>		
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	4/6/00
60.752(b)	Comply with paragraph (b)(2) or calculate NMOC emission rate	Y	4/6/00
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	4/6/00
60.752 (b)(2)(i)	Submit a collection and control system design plan	Y	4/6/01
60.752 (b)(2)(ii)	Install a collection and control system	Y	10/6/02

## IV. Source-specific Applicable Requirements

**Table IV-B**  
**Source-specific Applicable Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.752 (b)(2)(iii)	Route collected gases to a control system	Y	10/6/02
60.752 (b)(2)(iii)(B)	Reduce NMOC emissions by 98% by weight or reduce NMOC outlet concentration to less than 20 ppmv as hexane at 3% O <sub>2</sub> , dry basis	Y	10/6/02
60.752 (b)(2)(iv)	Operate in accordance with 60.753, 60.755, and 60.756	Y	10/6/02
60.753	Operational Standards for Collection and Control Systems	Y	10/6/02
60.753(e)	Vent all collected gases to a control system complying with 60.752(b)(2)(iii)	Y	10/6/02
60.753(f)	Operate the control system at all times when collected gas is Routed to the control system	Y	10/6/02
60.754	Test Methods and Procedures	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(e)	Provisions apply at all times except during startup, shutdown, or malfunction, provided the duration of these shall not exceed 5 days for collection systems or 1 hour for control systems	Y	10/6/02
60.756	Monitoring of Operations	Y	
60.756(b)	Enclosed combustors shall comply with (b)(1) and (b)(2)	Y	10/6/02
60.756(b)(1)	Temperature monitor and continuous recorder	Y	10/6/02
60.756(b)(2)	Device that records flow to or bypass of the control device	Y	10/6/02
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.757	Reporting Requirements	Y	
60.757(c)	Submit a Collection and Control System Design Plan	Y	4/6/01
60.757(e)	Submit Equipment Removal Report 30 days prior to removal or cessation of operation of the control equipment	Y	
60.757(f)	Submit Annual Reports containing information required by (f)(1), (f)(2), and (f)(3)	Y	4/4/03
60.757(f)(1)	Value and length of time for exceedance of parameters monitored per 60.756(b) or (e)	Y	4/4/03
60.757(f)(2)	Description and duration of all periods when gas is diverted from the control device by a by-pass line	Y	4/4/03

#### IV. Source-specific Applicable Requirements

**Table IV-B**  
**Source-specific Applicable Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.757(f)(3)	Description and duration of all periods when control device was not operating for more than 1 hour	Y	4/4/03
60.758	Recordkeeping Requirements	Y	
60.758(b)	Control Equipment Records	Y	
60.758(b)(2)	Performance test data for enclosed combustors other than boilers or process heaters (greater than 44 MW heat input)		
60.758(c)	Records of parameters monitored pursuant to 60.756(b) or (e)	Y	
60.758(e)	Records of any exceedance of 60.753(e) or (f)	Y	
<b>40 CFR Part 62, Subpart GGG</b>	<b>Approval and Promulgation of State Plans for Designated Facilities and Pollutants – Federal Plan Requirements for Municipal Solid Waste Landfills that Commenced Construction Prior to May 30, 1991 and Have Not Been Modified or Reconstructed Since May 30, 1991 (11/8/99)</b>		
62.14352	Designated Facilities	Y	
62.14352(a)	Landfills meeting (a)(1) and (a)(2) and not exempted by (b) or (c)	Y	
62.14352(a)(1)	Commenced construction, reconstruction, or modification before May 30, 1991	Y	
62.14352(a)(2)	Accepted waste since November 8, 1987 or has additional design capacity available	Y	
62.14353	Standards for Municipal Solid Waste Landfill Emissions	Y	
62.14353(b)	Landfills with Design Capacity equal to or greater than 2.5 million Mg and 2.5 million m3 must comply with 40 CFR 60.752(b)	Y	
62.14354	Procedures, Test Methods, and Monitoring	Y	
62.14354(b)	A control system used to comply with 62.14353(b) must comply with 40 CFR 60.753, 60.754(d), 60.755, and 60.756.	Y	
62.14355	Reporting and Recordkeeping Requirements	Y	
62.14355(a)	Designated facilities must comply with 40 CFR 60.757 & 60.758	Y	
62.14355(b)	Notification requirement for increments of progress	Y	
62.14355(c)	Notification requirement for failure to meet an increment of Progress	Y	
62.14356	Compliance Schedules and Increments of Progress	Y	
62.14356(a)	Increments of Progress	Y	

#### IV. Source-specific Applicable Requirements

**Table IV-B**  
**Source-specific Applicable Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
62.14356 (a)(1)	Submit final control plan	Y	4/6/01
62.14356 (a)(2)	Award contracts for construction of any new equipment or for modifications necessary to meet control plan	Y	12/6/01
62.14356 (a)(3)	Initiate on-site construction	Y	4/6/02
62.14356 (a)(4)	Complete on-site construction	Y	10/6/02
62.14356 (a)(5)	Achieve final compliance	Y	10/6/02
62.14356(b)	Final compliance must be achieved within 30 months of the first report showing NMOC emissions > 50 Mg/year	Y	10/6/02
62.14356(c)	Compliance schedules	Y	
62.14356 (c)(1)	Achieve increments of progress according to Table 3 of this Section	Y	
<b>BAAQMD Condition # 6117</b>			
Part 1	Abatement requirement for collected landfill gas (8-34-301)	Y	
Part 2	Requirements when an engine is down (8-34-301)	Y	
Part 3	Limitations on Natural Gas Usage (Cumulative Increase and Offsets)	Y	
Part 4	Landfill Gas Flow Meter Requirement (8-34-301)	Y	
Part 5	NOx emission limit (BACT and Offsets)	Y	
Part 6	CO emission limit (BACT)	Y	
Part 7	POC emission limit (BACT and Offsets)	Y	
Part 8	Annual Source Test Requirement (BACT, Offsets, 8-34-114, 8-34-412, 9-8-302.1, 9-8-302.3, and 40 CFR 60.752(b)(2)(iii)(B))	Y	
Part 9, subparts a.- e.	Record Keeping Requirements (Cumulative Increase and Offsets)	Y	
Part 10	Heat Input Limits (2-1-301)	Y	

## IV. Source-specific Applicable Requirements

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

**Table IV-C**  
**Source-specific Applicable Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/17/00)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	7/1/02
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	7/1/02
1-523.2	Limit on duration of inoperation	Y	7/1/02
1-523.3	Reporting requirement for violations of any applicable limits	Y	7/1/02
1-523.4	Records of inoperation, tests, calibrations, adjustments, & Maintenance	Y	7/1/02
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 8, Rule 34</b>	<b>Organic Compounds - Solid Waste Disposal Sites (10/6/99)</b>		
8-34-113	Limited Exemption, Inspection and Maintenance	N	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	N	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	N	
8-34-301.1	Continuous Operation	N	
8-34-301.2	Collection and Control Systems Leak Limitations	N	
8-34-301.4a	Energy Recovery Device or Emission Control System Limit	N	Expires 7/1/02
8-34-301.4b	Limits for Other Emission Control Systems	N	7/1/02
8-34-408	Collection and Control System Design Plans	N	

## IV. Source-specific Applicable Requirements

**Table IV-C**  
**Source-specific Applicable Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-408.2	Sites With Existing Collection and Control Systems	N	
8-34-410	Equipment Removal Report	N	
8-34-411	Annual Report	N	
8-34-412	Compliance Demonstration Tests	N	
8-34-413	Performance Test Report	N	
8-34-501	Operating Records	N	
8-34-501.2	Emission Control System Downtime	N	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors	N	7/1/02
8-34-501.4	Testing	N	
8-34-501.6	Leak Discovery and Repair Records	N	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	N	7/1/02
8-34-501.12	Records Retention for 5 Years	N	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-507	Continuous Temperature Monitor and Recorded	N	7/1/02
8-34-508	Gas Flow Meter	N	7/1/02
<b>SIP Regulation 8, Rule 34</b>	<b>Organic Compounds - Solid Waste Disposal Sites (6/15/94)</b>		
8-34-113	Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y <sup>1</sup>	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Collection and Control Systems Leak Limitations	Y	
8-34-301.3	Energy Recovery Device or Emission Control System Limit	Y <sup>1</sup>	
8-34-301.4	Continuous Operation	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Records of Testing for Compliance with 8-34-111.3 or 301	Y	
8-34-501.6	Records Retention	Y	
8-34-503	Landfill Gas Collection System Testing	Y	

## IV. Source-specific Applicable Requirements

**Table IV-C**  
**Source-specific Applicable Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-504	Portable Hydrocarbon Detector	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
<b>BAAQMD Regulation 9, Rule 2</b>	<b>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)</b>		
9-2-301	Limitations on Hydrogen Sulfide	N	
<b>BAAQMD Regulation 9 Rule 8</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)</b>		
9-8-301	Emission Limits - Fossil Derived Fuel Gas	Y	
9-8-301.2	Lean-Burn Engines: NOx Emission Limit	Y	
9-8-301.3	CO Emission Limit	Y	
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	Lean-Burn Engines: NOx Emission Limit	Y	
9-8-302.3	CO Emission Limit	Y	
<b>40 CFR Part 60, Subpart A</b>	<b>Standards of Performance for New Stationary Sources – General Provisions (5/4/98)</b>		
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operation before performing	Y	

## IV. Source-specific Applicable Requirements

**Table IV-C**  
**Source-specific Applicable Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Performance Tests		
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
<b>40 CFR Part 60, Subpart Cc</b>	<b>Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/99)</b>		
60.32c	Designated Facilities	Y	
60.32c(a)	Construction or Modification Commenced before 5/30/91	Y	
60.32c(b)	Physical or Operational Changes Made in Order to Comply are not Considered Modifications	Y	
60.32c(c)	Title V Applicability and Subject Date	Y	
60.32c(d)	Criteria for Ceasing Title V Applicability for Closed Landfills	Y	
60.36c	Compliance Times	Y	
60.36c(a)	Collection and Control Systems in Compliance by 30 months After Initial NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	
60.36c(b)	Collection and Control Systems in Compliance by 30 months After Annual NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	
<b>40 CFR Part 60, Subpart WWW</b>	<b>Standards of Performance for New Stationary Sources – Standards of Performance for Municipal Solid Waste Landfills (2/24/99)</b>		
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	4/6/00
60.752(b)	Comply with paragraph (b)(2) or calculate NMOC emission rate	Y	4/6/00
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	4/6/00
60.752 (b)(2)(i)	Submit a collection and control system design plan	Y	4/6/01
60.752 (b)(2)(ii)	Install a collection and control system	Y	10/6/02



#### IV. Source-specific Applicable Requirements

**Table IV-C**  
**Source-specific Applicable Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.752 (b)(2)(iii)	Route collected gases to a control system	Y	10/6/02
60.752 (b)(2)(iii)(B)	Reduce NMOC emissions by 98% by weight or reduce NMOC outlet concentration to less than 20 ppmv as hexane at 3% O <sub>2</sub> , dry basis	Y	10/6/02
60.752 (b)(2)(iv)	Operate in accordance with 60.753, 60.755, and 60.756	Y	10/6/02
60.753	Operational Standards for Collection and Control Systems	Y	10/6/02
60.753(e)	Vent all collected gases to a control system complying with 60.752(b)(2)(iii)	Y	10/6/02
60.753(f)	Operate the control system at all times when collected gas is Routed to the control system	Y	10/6/02
60.754	Test Methods and Procedures	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(e)	Provisions apply at all times except during startup, shutdown, or malfunction, provided the duration of these shall not exceed 5 days for collection systems or 1 hour for control systems	Y	10/6/02
60.756	Monitoring of Operations	Y	
60.756(b)	Enclosed combustors shall comply with (b)(1) and (b)(2)	Y	10/6/02
60.756(b)(1)	Temperature monitor and continuous recorder	Y	10/6/02
60.756(b)(2)	Device that records flow to or bypass of the control device	Y	10/6/02
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.757	Reporting Requirements	Y	
60.757(c)	Submit a Collection and Control System Design Plan	Y	4/6/01
60.757(e)	Submit Equipment Removal Report 30 days prior to removal or cessation of operation of the control equipment	Y	
60.757(f)	Submit Annual Reports containing information required by (f)(1), (f)(2), and (f)(3)	Y	4/4/03
60.757(f)(1)	Value and length of time for exceedance of parameters monitored per 60.756(b) or (e)	Y	4/4/03
60.757(f)(2)	Description and duration of all periods when gas is diverted from the control device by a by-pass line	Y	4/4/03

#### IV. Source-specific Applicable Requirements

**Table IV-C**  
**Source-specific Applicable Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.757(f)(3)	Description and duration of all periods when control device was not operating for more than 1 hour	Y	4/4/03
60.758	Recordkeeping Requirements	Y	
60.758(b)	Control Equipment Records	Y	
60.758(b)(2)	Performance test data for enclosed combustors other than boilers or process heaters (greater than 44 MW heat input)		
60.758(c)	Records of parameters monitored pursuant to 60.756(b) or (e)	Y	
60.758(e)	Records of any exceedance of 60.753(e) or (f)	Y	
<b>40 CFR Part 62, Subpart GGG</b>	<b>Approval and Promulgation of State Plans for Designated Facilities and Pollutants – Federal Plan Requirements for Municipal Solid Waste Landfills that Commenced Construction Prior to May 30, 1991 and Have Not Been Modified or Reconstructed Since May 30, 1991 (11/8/99)</b>		
62.14352	Designated Facilities	Y	
62.14352(a)	Landfills meeting (a)(1) and (a)(2) and not exempted by (b) or (c)	Y	
62.14352(a)(1)	Commenced construction, reconstruction, or modification before May 30, 1991	Y	
62.14352(a)(2)	Accepted waste since November 8, 1987 or has additional design capacity available	Y	
62.14353	Standards for Municipal Solid Waste Landfill Emissions	Y	
62.14353(b)	Landfills with Design Capacity equal to or greater than 2.5 million Mg and 2.5 million m3 must comply with 40 CFR 60.752(b)	Y	
62.14354	Procedures, Test Methods, and Monitoring	Y	
62.14354(b)	A control system used to comply with 62.14353(b) must comply with 40 CFR 60.753, 60.754(d), 60.755, and 60.756.	Y	
62.14355	Reporting and Recordkeeping Requirements	Y	
62.14355(a)	Designated facilities must comply with 40 CFR 60.757 & 60.758	Y	
62.14355(b)	Notification requirement for increments of progress	Y	
62.14355(c)	Notification requirement for failure to meet an increment of Progress	Y	
62.14356	Compliance Schedules and Increments of Progress	Y	
62.14356(a)	Increments of Progress	Y	

## IV. Source-specific Applicable Requirements

**Table IV-C**  
**Source-specific Applicable Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
62.14356 (a)(1)	Submit final control plan	Y	4/6/01
62.14356 (a)(2)	Award contracts for construction of any new equipment or for modifications necessary to meet control plan	Y	12/6/01
62.14356 (a)(3)	Initiate on-site construction	Y	4/6/02
62.14356 (a)(4)	Complete on-site construction	Y	10/6/02
62.14356 (a)(5)	Achieve final compliance	Y	10/6/02
62.14356(b)	Final compliance must be achieved within 30 months of the first report showing NMOC emissions > 50 Mg/year	Y	10/6/02
62.14356(c)	Compliance schedules	Y	
62.14356 (c)(1)	Achieve increments of progress according to Table 3 of this section	Y	
<b>BAAQMD Condition # 6117</b>			
Part 1	Abatement requirement for collected landfill gas (8-34-301)	Y	
Part 2	Requirements when an engine is down (8-34-301)	Y	
Part 3	Limitations on Natural Gas Usage (Cumulative Increase and Offsets)	Y	
Part 4	Landfill Gas Flow Meter Requirement (8-34-301)	Y	
Part 5	NOx emission limit (BACT and Offsets)	Y	
Part 6	CO emission limit (BACT)	Y	
Part 7	POC emission limit (BACT and Offsets)	Y	
Part 8	Annual Source Test Requirement (BACT, Offsets, 8-34-301.4, 8-34-412, 9-8-302.1, 9-8-302.3, and 40 CFR 60.752(b)(2)(iii)(B))	Y	
Part 9, subparts a.- e.	Record Keeping Requirements (Cumulative Increase and Offsets)	Y	
Part 10	Heat Input Limits (2-1-301)	Y	

#### **IV. Source-specific Applicable Requirements**

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

## IV. Source-specific Applicable Requirements

**Table IV – D**  
**Source-specific Applicable Requirements**  
**A2 – LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/17/00)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	7/1/02
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	7/1/02
1-523.2	Limit on duration of inoperation	Y	7/1/02
1-523.3	Reporting requirement for violations of any applicable limits	Y	7/1/02
1-523.4	Records of inoperation, tests, calibrations, adjustments, & Maintenance	Y	7/1/02
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 8, Rule 34</b>	<b>Organic Compounds - Solid Waste Disposal Sites (10/6/99)</b>		
8-34-113	Limited Exemption, Inspection and Maintenance	N	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	N	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	N	
8-34-301.1	Continuous Operation	N	
8-34-301.2	Collection and Control Systems Leak Limitations	N	
8-34-301.3a	Enclosed Flare Destruction Efficiency	N	Expires 7/1/02
8-34-301.3b	Limits for Enclosed Flares	N	7/1/02
8-34-411	Annual Report	N	10/6/00
8-34-412	Compliance Demonstration Tests	N	7/1/02
8-34-413	Performance Test Report	N	7/1/02
8-34-501	Operating Records	N	
8-34-501.2	Emission Control System Downtime	N	

## IV. Source-specific Applicable Requirements

**Table IV – D**  
**Source-specific Applicable Requirements**  
**A2 – LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-501.3	Continuous Temperature Records for Enclosed Combustors	N	
8-34-501.4	Testing	N	
8-34-501.6	Leak Discovery and Repair Records	N	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	N	7/1/02
8-34-501.12	Records Retention for 5 Years	N	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-507	Continuous Temperature Monitor and Recorded	N	
8-34-508	Gas Flow Meter	N	7/1/02
<b>SIP Regulation 8, Rule 34</b>	<b>Organic Compounds - Solid Waste Disposal Sites (3/22/95)</b>		
8-34-113	Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y <sup>1</sup>	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Collection and Control Systems Leak Limitations	Y	
8-34-301.2	Enclosed Flare Destruction Efficiency	Y <sup>1</sup>	
8-34-301.4	Continuous Operation	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.3	Temperature Monitoring	Y	
8-34-501.4	Records of Testing for Compliance with 8-34-111.3 or 301	Y	
8-34-501.6	Records Retention	Y	
8-34-503	Landfill Gas Collection System Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	

## IV. Source-specific Applicable Requirements

**Table IV – D**  
**Source-specific Applicable Requirements**  
**A2 – LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 9, Rule 2</b>	<b>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)</b>		
9-2-301	Limitations on Hydrogen Sulfide	N	
<b>40 CFR Part 60, Subpart A</b>	<b>Standards of Performance for New Stationary Sources – General Provisions (5/4/98)</b>		
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operational before performing Performance Tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
<b>40 CFR Part 60, Subpart Cc</b>	<b>Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/99)</b>		
60.32c	Designated Facilities	Y	
60.32c(a)	Construction or Modification Commenced before 5/30/91	Y	
60.32c(b)	Physical or Operational Changes Made in Order to Comply are not Considered Modifications	Y	

## IV. Source-specific Applicable Requirements

**Table IV – D**  
**Source-specific Applicable Requirements**  
**A2 – LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.32c(c)	Title V Applicability and Subject Date	Y	
60.36c	Compliance Times	Y	
60.36c(a)	Collection and Control Systems in Compliance by 30 months After Initial NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	
60.36c(b)	Collection and Control Systems in Compliance by 30 months After Annual NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	
<b>40 CFR Part 60, Subpart WWW</b>	<b>Standards of Performance for New Stationary Sources – Standards of Performance for Municipal Solid Waste Landfills (2/24/99)</b>		
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(b)	Requirements for MSW Landfills with Design Capacity equal to or greater than 2.5 million Mg and 2.5 million m <sup>3</sup> (Large Designated Facilities)	Y	
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	
60.752 (b)(2)(i)	Submit a Collection and Control System Design Plan	Y	4/6/01
60.752 (b)(2)(i)(A)	The collection and control system in the Design Plan shall comply with 60.752(b)(2)(ii)	Y	
60.752 (b)(2)(i)(B)	Design Plan shall include all proposed alternatives to 60.753 through 60.758	Y	
60.752 (b)(2)(ii)	Install a collection and control system	Y	10/6/02
60.752 (b)(2)(iii)	Route collected gases to a control system meeting the following requirements	Y	10/6/02
60.752 (b)(2)(iii)(B)	Reduce NMOC emissions by 98% by weight or reduce NMOC outlet concentration to less than 20 ppmv as hexane at 3% O <sub>2</sub> , dry basis, as demonstrated by initial performance test within 180 days of start-up.	Y	10/6/02
60.752 (b)(2)(iv)	Operate in accordance with 60.753, 60.755, and 60.756	Y	10/6/02



## IV. Source-specific Applicable Requirements

**Table IV – D**  
**Source-specific Applicable Requirements**  
**A2 – LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.753	Operational Standards for Collection and Control Systems	Y	10/6/02
60.753(e)	Vent all collected gases to a control system complying with 60.752(b)(2)(iii). If collection or control system inoperable, shut down gas mover and close all vents within 1 hour	Y	10/6/02
60.753(f)	Operate the control system at all times when collected gas is Routed to the control system	Y	10/6/02
60.754	Test Methods and Procedures	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(e)	Provisions apply at all times except during startup, shutdown, or Malfunction, provided the duration of these shall not exceed 5 Days for collection systems or 1 hour for control systems.	Y	10/6/02
60.756	Monitoring of Operations	Y	10/6/02
60.756(b)	Enclosed combustors shall comply with (b)(1) and (b)(2)	Y	10/6/02
60.756(b)(1)	Temperature monitor and continuous recorder (not required for boilers and process heaters with capacity > 44 MW)	Y	10/6/02
60.756(b)(2)	Device that records flow to or bypass of the control device (i or ii below)	Y	10/6/02
60.756 (b)(2)(i)	Install, calibrate, and maintain a device that records flow to the control device at least every 15 minutes.	Y	10/6/02
60.756 (b)(2)(ii)	Secure a bypass valve in closed position with a lock-and-key configuration and inspect seal and lock monthly.	Y	10/6/02
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.757	Reporting Requirements	Y	
60.757(f)	Submit Annual Reports containing information required by (f)(1) through (f)(6)	Y	
60.757(f)(1)	Value and length of time for exceedance of parameters Monitored per 60.756(a), (b) or (d)	Y	
60.757(f)(2)	Description and duration of all periods when gas is diverted From the control device by a by-pass line	Y	
60.757(f)(3)	Description and duration of all periods when control device was not operating for more than 1 hour	Y	
60.757(g)	Initial Performance Test Report Requirements (g)(1-6)	Y	4/4/03

#### IV. Source-specific Applicable Requirements

**Table IV – D**  
**Source-specific Applicable Requirements**  
**A2 – LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.758	Recordkeeping Requirements	Y	
60.758(b)	Collection and Control Equipment Records (retain for life of Control equipment except 5 years for monitoring data)	Y	10/6/02
60.758(b)(2)	Control System Records – enclosed combustors other than boilers or process heaters with heat input > 44 MW	Y	10/6/02
60.758 (b)(2)(i)	Combustion temperature measured every 15 minutes and Averaged over the same time period as the performance test	Y	10/6/02
60.758 (b)(2)(ii)	Percent NMOC reduction achieved by the control device	Y	10/6/02
60.758(c)	Records of parameters monitored pursuant to 60.756 and periods of operation when boundaries are exceeded (retain for 5 years).	Y	10/6/02
60.758(c)(1)	Exceedances subject to record keeping are	Y	10/6/02
60.758 (c)(1)(i)	All 3-hour periods when average combustion temperature was more than 28 C below the average combustion temperature during the most recent complying performance test	Y	10/6/02
60.758(c)(2)	Records of continuous flow to control device or monthly inspection records if seal and lock for bypass valves	Y	10/6/02
<b>40 CFR Part 62, Subpart GGG</b>	<b>Approval and Promulgation of State Plans for Designated Facilities and Pollutants – Federal Plan Requirements for Municipal Solid Waste Landfills that Commenced Construction Prior to May 30, 1991 and Have Not Been Modified or Reconstructed Since May 30, 1991 (11/8/99)</b>		
62.14352	Designated Facilities	Y	
62.14352(a)	MSW Landfills Meeting 62.14352(a)(1) and (a)(2)	Y	
62.14352 (a)(1)	Commenced construction, reconstruction, or modification before May 30, 1991	Y	
62.14352 (a)(2)	Accepted waste since November 8, 1987 or has additional design capacity available	Y	
62.14352(d)	Changes made to comply with EG are not a “modification” and do not subject a landfill to 40 CFR Part 60, Subpart WWW	Y	
62.14352(e)	Title V Operating Permit Requirements	Y	4/6/00

#### IV. Source-specific Applicable Requirements

**Table IV – D**  
**Source-specific Applicable Requirements**  
**A2 – LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
62.14353	Standards for Municipal Solid Waste Landfill Emissions	Y	
62.14353(b)	Landfills with Design Capacity equal to or greater than 2.5 million Mg <b>and</b> 2.5 million m <sup>3</sup> (Large Designated Facilities) must comply with 40 CFR 60.752(b)	Y	
62.14354	Procedures, Test Methods, and Monitoring	Y	
62.14354(b)	A gas collection and control system used to comply with 62.14353(b) must comply with 40 CFR 60.753, 60.754(b) and (d), 60.755, and 60.756.	Y	
62.14355	Reporting and Recordkeeping Requirements	Y	
62.14355(a)	Designated Facilities must comply with 40 CFR 60.757 and 60.758 accept as provided in 62.14355(a)(1) and (a)(2)	Y	
62.14356	Compliance Schedules and Increments of Progress	Y	
62.14356(a)	Increments of Progress for Large Designated Facilities with NMOC Emissions Greater Than 50 Mg/year	Y	
62.14356(a)(1)	Increment 1 - Submit final control plan	Y	4/6/01
62.14356(a)(2)	Increment 2 - Award contracts for construction of any new equipment or for modifications necessary to meet control plan	Y	12/6/01
62.14356(a)(3)	Increment 3 - Initiate on-site construction	Y	4/6/02
62.14356(a)(4)	Increment 4 - Complete on-site construction	Y	10/6/02
62.14356(a)(5)	Increment 5 - Achieve final compliance	Y	10/6/02
62.14356(b)	Final compliance must be achieved within 30 months of the first Report showing NMOC emissions > 50 Mg/year	Y	10/6/02
62.14356(c)	Compliance schedules	Y	
62.14356(c)(1)	Achieve increments of progress according to Table 3 of this Section	Y	
<b>BAAQMD Condition # 4044</b>			
Part 7	Limit on total reduced sulfur content in landfill gas (9-1-302)	Y	

#### IV. Source-specific Applicable Requirements

**Table IV – D**  
**Source-specific Applicable Requirements**  
**A2 – LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 9	Requirement to operate flare when an engine is down (8-34-301)	Y	
Part 10	Combustion Temperature Limit (TRMP)	N	
Part 11	Flow meter requirement (8-34-301)	Y	
Part 12	Alarm requirements (8-34-301.1)	Y	
Part 13	Temperature monitor and recorder (8-34-507 and TRMP)	Y	
Part 14	Test requirement for NMOC and THC limits (8-34-301.3)	Y	
Part 16	Test requirement for landfill gas sulfur content limit (9-1-302)	Y	
Part 17, subparts i.-m.	Record keeping requirements (Cumulative Increase, 8-34-304, 8-34-501.3, and 8-34-501.8)	Y	
Part 21	Heat Input Limits (2-1-301)	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

## **V. SCHEDULE OF COMPLIANCE**

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit.

## **VI. PERMIT CONDITIONS**

Any condition that is preceded by an asterisk is not federally enforceable.

### **Condition # 4044**

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

1. The total amount of municipal solid waste received at the Sonoma County Central Landfill (S-1) shall not exceed 2,500 tons per day nor 897,500 tons per year. The total cumulative amount of all wastes and cover materials (excluding final cover material) placed in the landfill shall not exceed both 19.8 million cubic yards and 12.0 million tons.  
(basis: Cumulative Increase and 2-1-301)
2. Particulate emissions from any operation of the Landfill (S-1) shall be abated by Water Spray (A-8), if necessary, so that visible dust emissions shall not exceed Ringelmann 0.5 or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: BACT and 1-301)
- \*3. If the plant receives two or more Violation Notices from the District for "Public Nuisance" related to dust emissions in any consecutive 12 month period, the Permit Holder shall submit to the District, within 30 days, an application to modify the Permit to Operate to include the following control measures as applicable or any other measures that the District deems necessary and appropriate. (basis: Regulation 1-301)
  - a. The paving of all significant roads associated with landfill operations, or
  - b. The use of chemical suppressant to control fugitive dust emissions from roadways associated with this landfill.

## VI. Permit Conditions

### Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

4. The Permit Holder shall apply for and receive an Authority to Construct before modifying the landfill gas collection system described in Parts 4.a.-b. below. Increasing or decreasing the number of wells or collectors, or significantly changing the length of collectors, or the locations of wells or collectors are all considered to be modifications that are subject to the Authority to Construct requirement.
  - a. The Permit Holder has been issued a Permit to Operate for the landfill gas collection system components listed below. Well and collector locations, depths, and lengths are as described in detail in Permit Application #25840.

#### Required Components

Total Number of Vertical Wells:	94
Total Number of Horizontal Collectors:	43

- b. The Permit Holder has been issued an Authority to Construct for the landfill gas collection system components listed below. These collectors shall be installed in the East Canyon Expansion Area in accordance with the requirements of Regulation 8-34-304. Specific collector locations, depths, and lengths of associated piping are as described in detail in Permit Application # 19313.

	Minimum	Maximum
Total Number of Horizontal Collectors:	14	

Wells installed pursuant to Parts 4.b. shall be added to Part 4.a. via an administrative permit amendment.

(basis: Regulations 2-1-301, 8-34-301.1, 8-34-304, 8-34-305).

5. The landfill gas collection system described in Part 4.a. shall be operated continuously. Wells shall not be shut off, disconnected or removed from operation without written authorization from the District, unless the Permit Holder complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 116, 117, and 118. (basis: Regulation 8-34-301.1)
- \*6. If the concentrations (dry basis) of toxic air contaminants in the collected landfill gas exceed any of the limits listed below, the Permit Holder shall submit a permit application for a Change of Permit Conditions within 30 days of receiving the test results.

Benzene	=	2.5 ppmv
Trichloroethylene	=	3.0 ppmv
Perchloroethylene	=	3.0 ppmv
Methylene Chloride	=	20.0 ppmv
Vinyl Chloride	=	2.5 ppmv

(basis: Toxic Risk Management Policy)

## VI. Permit Conditions

### Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

7. Total reduced sulfur compounds in the collected landfill gas shall be monitored as a surrogate for monitoring sulfur dioxide in control systems exhaust. The concentration of total reduced sulfur compounds in the collected landfill gas shall not exceed 1300 ppmv (dry). (basis: Regulation 9-1-302)
8. All collected landfill gas shall be vented to properly operating abatement equipment including the Internal Combustion Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12) and/or the Landfill Gas Flare (A-2). Under no circumstances shall raw landfill gas be vented to the atmosphere. This limitation does not apply to unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 or to inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (basis: Regulation 8-34-301)
9. The A-2 Landfill Gas Flare shall be operated when one or more Internal Combustion Engines are down and whenever the flow of landfill gas exceeds the capacity of the Internal Combustion Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12). (basis: Regulation 8-34-301)
- \*10. The combustion temperature of the A-2 Landfill Gas Flare shall be maintained at a minimum of 1400 degrees Fahrenheit, averaged over any 3-hour period. (basis: Toxic Risk Management Policy)
11. A flow meter to measure gas flow into the A-2 Landfill Gas Flare shall be installed and maintained in good working condition. (basis: Regulation 8-34-301)
12. The A-2 Landfill Gas Flare shall be equipped with both local and remote alarm systems, which shall be enabled whenever the flare is required to be operated under the requirements of Part 9 above. (basis: Regulation 8-34-301.41)
13. The A-2 Landfill Gas Flare shall be equipped with a combustion temperature readout monitor and continuous recorder. (basis: Regulation 8-34-507 and Toxic Risk Management Policy)

## VI. Permit Conditions

### Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

14. In order to demonstrate compliance with Regulation 8, Rule 34, Section 301.3 and 40 CFR 60.752(b)(2)(iii)(B), the Permit Holder shall ensure that a District approved source test is conducted annually on the Landfill Gas Flare (A-2). As a minimum, the annual source test shall determine the following:
- a. landfill gas flow rate to the flare (dry basis);
  - b. concentrations (dry basis) of carbon dioxide (CO<sub>2</sub>), nitrogen (N<sub>2</sub>), oxygen (O<sub>2</sub>), methane(CH<sub>4</sub>), total non-methane organic compounds (NMOC), and total hydrocarbons (THC) in the landfill gas;
  - c. stack gas flow rate from the flare (dry basis);
  - d. concentrations (dry basis) of CH<sub>4</sub>, NMOC, THC, and O<sub>2</sub> in the flare stack gas;
  - e. the CH<sub>4</sub>, NMOC, and THC destruction efficiencies achieved by the flare; and
  - f. the average combustion temperature in the flare during the test period.

The first annual source test shall be conducted by no later than October 1, 2002 or no later than 12 months after the issue date of the MFR Permit, whichever date occurs first. Subsequent source tests shall be conducted no sooner than 9 months and no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. They shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date.

[Basis: Regulations 8-34-301.3 and 8-34-412 and 40 CFR 60.752(b)(2)(iii)(B)]

- \*15. In order to demonstrate compliance with Part 6 above, the Permit Holder shall conduct a characterization of the landfill gas at least once per year. The landfill gas sample shall be drawn from the main landfill gas header. The landfill gas shall be analyzed for methane (CH<sub>4</sub>), carbon dioxide (CO<sub>2</sub>), nitrogen (N<sub>2</sub>), oxygen (O<sub>2</sub>), and the compounds listed in the most recent version of EPA's AP-42 Table 2.4-1. All concentrations shall be reported on a dry basis. The test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date. After conducting three annual landfill gas characterization tests, the Permit Holder may request to remove specific compounds from the list of compounds to be tested for if the compounds have not been detected, have no significant impact on the cancer risk determination for the site, and have no significant impact on the hazard index determination for the site. If the Permit Holder has excluded any NPOCs from the POC emission calculations for the site, then the Permit Holder shall continue to test for these NPOCs on an annual basis. (basis: Toxic Risk Management Policy)



## **VI. Permit Conditions**

### **Condition # 4044**

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

16. In order to demonstrate compliance with Part 7 above, the Permit Holder shall measure the total sulfur content in collected landfill gas on a weekly basis using a draeger tube. The landfill gas sample shall be taken from the main landfill gas header. The Permit Holder shall follow the manufacturer's recommended procedures for using the draeger tube and interpreting the results. The Permit Holder shall conduct the first draeger tube test no later than 3 months after the issue date of the MFR Permit and weekly thereafter. After collecting three months of landfill gas sulfur content data, the Permit Holder may reduce the sulfur content testing frequency to a monthly basis, if all tests indicate compliance with the limit specified in Part 7 above. After collecting one year of sulfur content data, the Permit Holder may reduce the sulfur content testing frequency to a quarterly basis, if all tests indicate compliance with the limit specified in Part 7 above. (basis: 9-1-302)
17. In order to demonstrate compliance with the above conditions, the Permit Holder shall maintain the following records in a District approved logbook.
  - a. Record the total amount of municipal solid waste received at S-1 on a daily basis.
  - b. Summarize the daily waste acceptance records for each calendar month.
  - c. Summarize monthly waste acceptance records for each preceding 12-month period.
  - d. For each area or cell that is not controlled by a landfill gas collection system, maintain a record of the date that waste was initially placed in the area or cell.
  - e. Record the cumulative amount of waste placed in each uncontrolled area or cell on a monthly basis.
  - f. If the Permit Holder plans to exclude an uncontrolled area or cell from the collection system requirement, the Permit Holder shall also record the types and amounts of all non-decomposable waste placed in the area and the percentage (if any) of decomposable waste placed in the area.
  - g. Record the initial operation date for each new landfill gas well and collector.
  - h. Maintain an accurate map of the landfill which indicates the locations of all refuse boundaries and the locations of all wells and collectors (using unique identifiers) that are required to be operating continuously pursuant to Part 4.a. Any areas containing only non-decomposable waste shall be clearly identified. This map shall be updated at least every six months to indicate changes in refuse boundaries and to include any newly installed wells and collectors.

### **Condition # 4044**

## VI. Permit Conditions

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

- i. Record the operating times for the A-2 Landfill Gas Flare on a daily basis.
- j. Record the total amount of landfill gas vented to A-2 on a daily basis.
- k. Summarize the amount of landfill gas vented to A-2 on a monthly basis.
- l. Maintain continuous records of the combustion temperature achieved at A-2 during all hours of operation.
- m. Maintain records of all test dates and test results performed to maintain compliance these permit conditions.
- n. For each dust suppressant application, maintain records of the date the dust suppressant was applied, the areas that it was applied to, the type of dust suppressant used, and the amount of dust suppressant that was applied.
- o. Maintain daily records of the water application frequency for construction areas, unpaved roads, and dirt and rock stockpiles.
- p. Monitor the wind speed on a daily basis and record the date for any days when the wind speed exceeds 15 mph.

All records shall be maintained on site or shall be made readily available to District staff upon request for at least 5 years from the date of entry. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations.

(basis: Cumulative Increase and Regulations 6-301, 6-305, 8-34-304, 8-34-501.3, and 8-34-501.8)

- \*18. Handling Procedures for Soil Containing Volatile Organic Compounds
  - a. The procedures listed below in subparts b-k do not apply if the following criteria are satisfied. However, the record keeping requirements in subpart l below are applicable.
    - i. The Permit Holder has appropriate documentation demonstrating that either the organic content of the soil or the organic concentration above the soil is below the “contaminated” level (as defined in Regulation 8, Rule 40, Sections 205, 207, and 211).
    - ii. The Permit Holder has no documentation to prove that soil is not contaminated, but source of the soil is known and there is no reason to suspect that the soil might contain organic compounds.
  - b. Any soil received at the facility that is known or suspected to contain volatile organic compounds (VOCs) shall be handled as if the soil were contaminated, unless the Permit Holder receives test results proving

### Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

## VI. Permit Conditions

that the soil is not contaminated. To prove that the soil is not contaminated, the Permit Holder shall collect soil samples in accordance with Regulation 8-40-601 within 24 hours of receipt of the soil by the facility. The organic content of the collected soil samples shall be determined in accordance with Regulation 8-40-602.

- i. If these test results indicate that the soil is still contaminated or if the soil was not sampled within 24 hours of receipt by the facility, the Permit Holder must continue to handle the soil in accordance with the procedures subparts c-k below, until the soil has completed treatment or has been placed in a final disposal location and adequately covered. Storing soil in a temporary stockpile or pit is not considered treatment. Co-mingling, blending, or mixing of soil lots is not considered treatment.
  - ii. If these test results indicate that the soil – as received at the facility – has an organic content of 50 ppmw or less, then the soil may be considered to be not contaminated and need not be handled in accordance with the procedures listed in subparts c-k below.
- c. Any contaminated soil received at the facility shall be clearly identified as contaminated soil, shall be handled in accordance with subparts d-k below, and shall be segregated from non-contaminated soil. Contaminated soil lots may not be co-mingled, blended, or otherwise mixed with non-contaminated soil lots prior to treatment, reuse, or disposal. Mixing soil lots in an attempt to reduce the overall concentration of the contaminated soil or to circumvent any requirements or limits is strictly prohibited.
- c. On-site handling of contaminated soil shall be limited to no more than 2 on-site transfers per soil lot. For instance, unloading soil from off-site transport vehicles into a temporary storage pile would be considered 1 transfer. Moving soil from a temporary storage to a staging area would be considered 1 transfer. Moving soil from a temporary storage pile to a final disposal site would be considered 1 transfer. Moving soil from a staging area to a final disposal site would be considered 1 transfer. Therefore, unloading soil from off-site transport into a temporary storage pile and then moving the soil from that temporary storage pile to the final disposal site would be allowed. Unloading soil from off-site transport into a staging area and then moving the soil from that staging area to the final disposal site would be allowed. However, unloading soil from off-site transport to a

### **Condition # 4044**

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

## VI. Permit Conditions

temporary storage pile, moving this soil to a staging area, and then moving the soil again to a final disposal site would be 3 on-site transfers and would not be allowed.

- e. If the contaminated soil has an organic content of less than 500 ppmw, the contaminated soil shall be treated, deposited in a final disposal site, or transported off-site for treatment within 90 days of receipt at the facility.
- f. If the contaminated soil has an organic content 500 ppmw or more, the contaminated soil shall be treated, deposited in a final disposal site, or transported off-site for treatment within 45 days of receipt at the facility.
- g. All active storage piles shall meet the requirements of Regulation 8-40-304 by using water sprays, vapor suppressants or approved coverings to minimize emissions. The exposed surface area of any active storage pile (including the active face at a landfill) shall be limited to 6000 ft<sup>2</sup>. The types of storage piles that may become subject to these provisions include (but are not limited to) truck unloading areas, staging areas, temporary stockpiles, soil on conveyors, bulldozers or trucks, the active face of a landfill, or other permanent storage pile at the final disposal location.
- h. All inactive storage piles shall meet the requirements of Regulation 8-40-305 including the requirement to cover contaminated soil during periods of inactivity longer than one hour. The types of storage piles that may become subject to these provisions include (but are not limited to) soil on trucks or other on-site equipment, staging areas, temporary stockpiles, and the permanent storage pile at the final disposal location. District approved coverings for inactive storage piles include continuous heavy-duty plastic sheeting (in good condition, joined at the seams, and securely anchored) or encapsulating vapor suppressants (with re-treatment as necessary to prevent emissions).
- i. For landfills, Permit Holders must:
  - i. Keep contaminated soil covered with continuous heavy-duty plastic sheeting (in good condition, joined at the seams, and securely anchored) whenever soil is to be stored in temporary stockpiles or during on-site transport in trucks. Soil in trucks shall not be left uncovered for more than 1 hour.
  - ii. Establish a tipping area for contaminated soils near the active face that is isolated from the tipping area for other wastes.

### Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

- iii. Spray contaminated soil with water or vapor suppressant immediately after dumping the soil from a truck at the tipping area.

## VI. Permit Conditions

- iv. Ensure that all contaminated soil is transferred from the tipping area to the active face immediately after spraying with water or vapor suppressant.
- v. Ensure that contaminated soil in the tipping area is not disturbed by subsequent trucks. Trucks shall not drive over contaminated soil in the tipping area or track contaminated soil out of the tipping area on their wheels.
- vi. Spray contaminated soil on the active face with water or vapor suppressant (to keep the soil visibly moist) until the soil can be covered with an approved covering.
- vii. Limit the area of exposed soil on the active face to no more than 6000 ft<sup>2</sup>.
- viii. Ensure that contaminated soil that has been spread on the active face is completely covered on all sides with one of the following approved coverings: at least 6 inches of clean compacted soil, at least 12 inches of compacted garbage, or at least 12 inches of compacted green waste.
- ix. Ensure that covering of soil on the active face is completed within one hour of the time that the soil was first dumped from a truck at the tipping area.
- j. Contaminated soil shall not be used as daily, intermediate, or final cover material for landfill waste operations unless the requirements of Regulation 8, Rule 40, Sections 116 or 117 have been satisfied.
- k. Contaminated soil is considered to be a decomposable solid waste pursuant to Regulation 8, Rule 34. All contaminated soil disposed of at a site shall be included in any calculations of the amount of decomposable waste in place that are necessary for annual reporting requirements or for determining the applicability of 8-34-111 or 8-34-304.
- l. The Permit Holder shall keep the following records for each lot of soil received, in order to demonstrate on-going compliance with the applicable provisions of Regulation 8, Rule 40.
  - i. For all soil received by the facility (including soil with no known contamination), record the arrival date at the facility, the soil lot number, the amount of soil in the lot, the organic content or organic concentration of the lot (if known), the type of contamination (if any), and keep copies of any test data or

### Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

## VI. Permit Conditions

other information that documents whether the soil is contaminated (as defined in 8-40-205) or not contaminated, with what, and by how much.

- ii. If the soil is tested for organic content after receipt by the facility, record the sampling date, test results, and the date that these results were received.
- iii. For all on-site handling of contaminated soil, use a checklist or other approved method to demonstrate that appropriate procedures were followed during all on-site handling activities. One checklist shall be completed for each day and for each soil lot (if multiple lots are handled per day).
- iv. For soil aerated in accordance with 8-40-116 or 117 record the soil lot number, the amount of soil in the lot, the organic content, the final placement date, the final placement location, and describe how the soil was handled or used on-site.
- v. For final disposal at a landfill, record on a daily basis the soil lot number, the amount of soil placed in the landfill, the disposal date, and the disposal location.

All records shall be retained for at least 5 years from the date of entry and shall be made available for District inspection upon request.

(basis: Regulation 8-40-301, 8-40-304 and 8-40-305)

- 19. The Permit Holder shall limit the quantity of soil (that contains VOCs) disposed of per day so that no more than 15 pounds of total carbon could be emitted to the atmosphere per day. In order to demonstrate compliance with this condition, the Permit Holder shall maintain the following records in a District approved log.
  - a. Record on a daily basis the amount of soil (that contains VOCs) disposed of in the landfill and used as cover material in the landfill. This total amount (in units of pounds per day) is Q in the equation in subpart c. below.
  - b. Record on a daily basis the VOC content of all soils disposed of or used as cover material. This VOC Content (C in the equation below) should be expressed as parts per million by weight as total carbon (or C<sub>1</sub>).
  - c. Calculate and record on a daily basis the VOC Emission Rate (E) using the following equation:

$$E = Q * C / 10^6$$

### Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

## VI. Permit Conditions

All records shall be maintained on site or shall be made readily available to District staff upon request for at least 5 years from the date of entry.

(basis: Regulation 8-2-301)

- \*20. In accordance with Docket No. 2656, the Permit Holder shall submit permit applications to expand the landfill gas collection system at least every six months. In no event shall any fill area be uncontrolled in excess of twelve months. The Permit Holder shall keep records to demonstrate compliance with this condition. The records shall be retained for two years and shall be available to the District staff upon request.

(basis: Docket No. 2656, Conditional Order for Abatement)

21. The Heat Input to the A-2 Landfill Gas Flare shall not exceed 1250.4 million BTU per day nor 456,396 million BTU per year. In order to demonstrate compliance with this part, the Permit Holder shall calculate and record on a monthly basis the maximum daily and total monthly heat input to the flare based on the landfill gas flow rate recorded pursuant to part 11, the average methane concentration in the landfill gas based on the most recent source test, and a high heating value for methane of 1013 BTU/scf. The records shall be retained for five years and shall be available to the District staff upon request.

(basis: Regulation 2-1-301)

### **Condition # 6117**

For S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12 Lean Burn Internal Combustion Engines and Generator Sets

1. All collected landfill gas shall be vented to properly operating abatement equipment including the Internal Combustion Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12) and/or the Landfill Gas Flare (A-2). Under no circumstances shall raw landfill gas be vented to the atmosphere. This limitation does not apply to unavoidable landfill gas emissions that occur during control system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 or to inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (basis: Regulation 8-34-301)

### **Condition # 6117**

## VI. Permit Conditions

For S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12 Lean Burn Internal Combustion Engines and Generator Sets

2. The A-2 Landfill Gas Flare shall be operated when one or more of the Internal Combustion Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12) are down and whenever the flow of landfill gas exceeds the capacity of these engines. (basis: Regulation 8-34-301)
3. The Internal Combustion Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12) shall be fired exclusively on landfill gas. If required, natural gas can be used as a supplemental fuel, but it shall not reduce or replace landfill gas available for use in these engines. Natural gas shall not be used as supplemental fuel when the A-2 Flare is operating concurrently with these engines. (basis: Offsets and Cumulative Increase)
4. District approved flowmeters, to measure landfill gas flow into the engines, shall be installed prior to any operation and maintained in good working condition. An automatically controlled landfill gas valve shall be installed, and maintained to insure that landfill gas is immediately made available for flaring to the A-2 Landfill Gas Flare when one or more of the engines are down. (basis: 8-34-301)
5. Nitrogen Oxide (NO<sub>x</sub>) emissions, calculated as NO<sub>2</sub>, from each Internal Combustion Engine (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12) shall not exceed 78 ppmv, corrected to 15% O<sub>2</sub>, dry basis. (basis: BACT and Offsets)
6. Carbon Monoxide (CO) emissions from each Internal Combustion Engine (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12) shall not exceed 283 ppmv, corrected to 15% O<sub>2</sub>, dry basis. (basis: BACT)
7. Precursor Organic Compound (POC) emissions from each Internal Combustion Engine (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12) shall not exceed 126 ppmv, expressed as methane, corrected to 15% O<sub>2</sub>, dry basis. When demonstrating compliance with this condition, the concentration of total non-methane organic compounds (NMOC) measured in the engine exhaust shall be assumed to be 100% POC, unless the Permit Holder concurrently tests the engine exhaust for one or more non-precursor organic compounds (NPOC). If the engine exhaust is concurrently tested for one or more NPOCs, then the following equation shall be used to determine the concentration of POC (C<sub>POC</sub>) that is subject to this requirement:  

$$C_{\text{POC}} (\text{as CH}_4) = C_{\text{NMOC}} (\text{as CH}_4) - C_{\text{NPOC}} (\text{as CH}_4)$$
(basis: BACT and Offsets)



## VI. Permit Conditions

### Condition # 6117

For S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12 Lean Burn Internal Combustion Engines and Generator Sets

8. In order to demonstrate compliance with Parts #5, #6, and #7 above, Regulation 8, Rule 34, Sections 114 and 301.4, Regulation 9, Rule 8, Sections 302.1 and 302.3, and 40 CFR 60.752(b)(2)(iii)(B), the Permit Holder shall ensure that a District approved source test is conducted annually on each Internal Combustion Engine (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12). As a minimum, the annual source tests shall determine the following:
  - a. landfill gas flow rate to each engine (dry basis);
  - b. concentrations (dry basis) of carbon dioxide (CO<sub>2</sub>), nitrogen (N<sub>2</sub>), oxygen (O<sub>2</sub>), CH<sub>4</sub>, NMOC, and total hydrocarbons (THC) in the landfill gas;
  - c. exhaust gas flow rate from each engine (dry basis);
  - d. concentrations (dry basis) of NO<sub>x</sub>, CO, CH<sub>4</sub>, NMOC, THC, and O<sub>2</sub> in the exhaust gas from each engine;
  - e. the CH<sub>4</sub>, NMOC, and THC destruction efficiencies achieved by each engine; and
  - f. the combustion temperature of each engine during the test period.The first annual source test for each engine shall be conducted by no later than October 1, 2002 or no later than 12 months after the issue date of the MFR Permit, whichever date occurs first. Subsequent source tests for each engine shall be conducted no sooner than 9 months and no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. They shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date.  
[basis: BACT, Offsets, Regulations 8-34-114, 8-34-301.4, 8-34-412, 9-8-302.1, 9-8-302.3, and 40 CFR 60.752(b)(2)(iii)(B)]
9. The Permit Holder shall maintain the following records in a District approved logbook:
  - a. On a daily basis, record the operating times for each engine.
  - b. On a daily basis, calculate and record the amount of landfill gas burned in each engine.
  - c. On any day that natural gas is burned in an engine, record the amount of natural gas burned in each engine.
  - d. On a monthly basis, summarize all daily records for each engine.

## **VI. Permit Conditions**

### **Condition # 6117**

For S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12 Lean Burn Internal Combustion Engines and Generator Sets

- e. On a monthly basis, calculate and record the maximum daily and total monthly heat input rate (in BTU) to each engine based on the average methane concentration in the landfill gas (as measure during the most recent source test), a high heating value for methane of 1013 BTU/scf, a high heating value for natural gas of 1050 BTU/scf, and the amounts of landfill gas and natural gas burned in each engine (recorded pursuant to subparts b. and c. above).

All records shall be maintained on site or shall be made readily available to District staff upon request for at least 5 years from the date of entry. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations.

(basis: Cumulative Increase and Offsets)

- 10. The heat input to each Internal Combustion Engine (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12) shall not exceed 206.64 million BTU per day nor 75,423.6 million BTU per year. (basis: Regulation 2-1-301)

## VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, either annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Collection System Installation Dates	BAAQMD 8-34-304.1	N		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 4044, Parts 17.d., f., g., h.	P/E	Records
Collection System Installation Dates	BAAQMD 8-34-304.2 and BAAQMD Condition # 4044, Part 4.b.	N		For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 4044, Parts 17.d., f., g., h.	P/E	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Collection System Installation Dates	BAAQMD 8-34-304.3 and BAAQMD Condition # 4044, Part 4.b.	N		For Any Uncontrolled Areas or Cells: collection system components must be installed and operating within 60 days after the uncontrolled area or cell accumulates 1,000,000 tons of decomposable waste	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 4044, Parts 17.e., f., g., h.	P/E	Records
Collection System Installation Dates	40 CFR 60.753 (a)(2) and 60.755 (b)(2)	Y	10/6/02	For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	40 CFR 60.758(a), (d)(1) and (d)(2), and 60.759(a)(3) and BAAQMD Condition # 4044, Parts 17.d.,f.,g.	P/E	Records
Collection System Installation Dates	40 CFR 60.753 (a)(1) and 60.755 (b)(1)	Y	10/6/02	For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	40 CFR 60.758(a), (d)(1) and (d)(2) and BAAQMD Condition # 4044, Parts 17.d.,f.,g.	P/E	Records
Collection System Installation Dates	BAAQMD Condition # 4044, Part 20	N		No filled area may be uncontrolled in excess of 12 months	BAAQMD Condition # 4044, Part 20	P/E	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Flow	BAAQMD 8-34-301 and 301.1; BAAQMD Condition # 4044, Parts 4.a., 5, 8, and 9; BAAQMD Condition # 6117, Parts 1 & 2	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD Condition #4044, Part 11 and Condition # 6117, Part 5	C	Gas Flow Meter
Gas Flow	BAAQMD 8-34-301 and 301.1; BAAQMD Condition # 4044, Parts 4.a., 5, 8, and 9; BAAQMD Condition # 6117, Parts 1 & 2	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD 8-34-501.10 and 508 (effective 7/1/02)	C	Gas Flow Meter and Recorder (every 15 minutes); effective 7/1/02
Gas Flow	SIP 8-34-301 and 301.4	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	SIP 8-34-501.1	P/D	Operating Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Flow	40 CFR 60.753(a) and (e)	Y	10/6/02	Operate a Collection System in each area or cell and vent all collected gases to a properly operating control system	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	C or P/M	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve and Lock and Records
Collection and Control Systems Shutdown Time	BAAQMD 8-34-113.2	N		240 hours/year nor 5 consecutive days	BAAQMD 8-34-501.1 and BAAQMD Condition # 4044, Part 17.i.	P/D	Operating Records
Collection and Control Systems Shutdown Time	SIP 8-34-113.2	Y <sup>1</sup>		12 hours/calendar month	SIP 8-34-501.1	P/D	Operating Records
Collection System Startup Shutdown or Malfunction	40 CFR 60.755(e)	Y	10/6/02	5 days per event	40 CFR 60.7(b), 60.757(f)(2) and (f)(4)	P/D	Operating Records (all occurrences and duration of each)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y	7/1/02	15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors
Continuous Monitors	40 CFR 60.13(e)	Y		Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Operating Records for All Continuous Monitors
Wellhead Pressure	BAAQMD 8-34-305.1	N	7/1/02	< 0 psig	BAAQMD 8-34-414, 501.9 and 505.1	P/M	Monthly Inspection and Records
Wellhead Pressure	40 CFR 60.753(b)	Y	10/6/02	< 0 psig	40 CFR 60.755(a)(3), 60.756(a)(1), and 60.758(c) and (e)	P/M	Monthly Inspection and Records
Temperature of Gas at Wellhead	BAAQMD 8-34-305.2	N	7/1/02	< 55 °C	BAAQMD 8-34-414, 501.9 and 505.2	P/M	Monthly Inspection and Records
Temperature of Gas at Wellhead	40 CFR 60.753(c)	Y	10/6/02	< 55 °C	40 CFR 60.755(a)(5), 60.756(a)(3), and 60.758(c) and (e)	P/M	Monthly Inspection and Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Concentrations at Wellhead	BAAQMD 8-34-305.3 or 305.4	N	7/1/02	N <sub>2</sub> < 20% <b>OR</b> O <sub>2</sub> < 5%	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4	P/M	Monthly Inspection and Records
Gas Concentrations at Wellhead	40 CFR 60.753(c)	Y	10/6/02	N <sub>2</sub> < 20% <b>OR</b> O <sub>2</sub> < 5%	40 CFR 60.755(a)(5), 60.756(a)(2), and 60.758(c) and (e)	P/M	Monthly Inspection and Records
Well Shutdown Limits	BAAQMD 8-34-116.2	N		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-116.5 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-116.3	N		24 hours per well	BAAQMD 8-34-116.5 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-117.4	N		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-117.6 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-117.5	N		24 hours per well	BAAQMD 8-34-117.6 and 501.1	P/D	Records



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	N		1000 ppmv as methane (component leak limit)	BAAQMD 8-34-501.6 and 503	P/Q	Quarterly Inspection of collection and control system components with OVA and Records
TOC	SIP 8-34-301.1	Y		1000 ppmv as methane (component leak limit)	SIP 8-34-503	P/Q	Quarterly Inspection with OVA
TOC	BAAQMD 8-34-303a	Y	Expires 7/1/02	1000 ppmv as methane at 3 inches above surface		N	
TOC	BAAQMD 8-34-303b	N	7/1/02	500 ppmv as methane at 2 inches above surface	BAAQMD 8-34-415, 416, 501.6, 506 and 510	P/M, Q, and E	Monthly Visual Inspection of Cover, Quarterly Inspection with OVA of Surface, Various Reinspection Times for Leaking Areas, and Records
TOC	SIP 8-34-303	Y <sup>1</sup>		1000 ppmv as methane at 3 inches above surface		N	

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC	40 CFR 60.753(d)	Y	10/6/02	<500 ppmv as methane at 5-10 cm from surface	40 CFR 60.755(c)(1), (4) and (5), 60.756(f), and 60.758(c) and (e)	P/M, Q and E	Monthly Visual Inspection of Cover, Quarterly Inspection with OVA of Surface, Various Reinspection Times for Leaking Areas, and Records
Total Carbon	BAAQMD 8-2-301	Y		15 pounds/day or 300 ppm, dry basis only for aeration of or use as cover soil of soil containing $\leq 50$ ppmw of volatile organic compounds	BAAQMD Condition # 4044, Part 19.a.-c.	P/E	Records
Amount of Contaminated Soil Aerated or Used as Cover	BAAQMD 8-40-116.1	N		1 cubic yard per project	BAAQMD Condition # 4044, Part 18.1.	P/E	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Amount of Contaminated Soil Aerated or Used as Cover	BAAQMD 8-40-116.2	N		8 cubic yards per project, provided organic content $\leq 500$ ppmw and limited to 1 exempt project per 3 month period	BAAQMD 8-40-116.2 and BAAQMD Condition # 4044, Part 18.1.	P/E	Records
Amount of Contaminated Soil Aerated or Used as Cover	BAAQMD 8-40-301	N		Prohibited for Soil with Organic Content $>50$ ppmw unless exempt per BAAQMD 8-40-116, 117, or 118	BAAQMD Condition # 4044, Part 18.1.	P/E	Records
Amount of Contaminated Soil Aerated or Used as Cover	SIP 8-40-301	Y <sup>1</sup>		Organic Content Amount ppmw yd <sup>3</sup> /day 50-99 600 100-499 120 500-999 60 1000-1999 30 2000-2999 15 3000-3999 10 4000-4999 8 5000+ 0.1	BAAQMD Condition # 4044, Part 18.1.	P/E	Records
Amount of Accidental Spillage	8-40-117	N		Soil Contaminated by Accidental Spillage of $\leq 5$ gallons of Liquid Organic Compounds		N	

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Total Aeration Project Emissions	BAAQMD 8-40-118	N		150 pounds per project and toxic air contaminant emissions per year <BAAQMD Table 2-1-316 limits	BAAQMD Condition # 4044, Part 18.l.	P/E	Records
Contaminated Soil Handling	BAAQMD Condition # 4044, Part 18.d.	N		Limited to 2 on-site transfers per lot of contaminated soil	BAAQMD Condition # 4044, Part 18.l.	P/E	Records
Contaminated Soil On-Site Storage Time	BAAQMD Condition # 4044, Part 18.e.-f.	N		If organic content is: < 500 ppmw, storage time ≤ 90 days ≥ 500 ppmw, storage time ≤ 45 days	BAAQMD Condition # 4044, Part 18.l.	P/E	Records
TSP	BAAQMD 6-301	Y		Ringelmann No. 1	BAAQMD Condition # 4044, Part 17.n.-p.	P/E	Records of Dust Suppressant and Water Application
TSP	BAAQMD Condition # 4044, Part 2	Y		Ringelmann No. 0.5	BAAQMD Condition # 4044, Part 17.n.-p.	P/E	Records of Dust Suppressant and Water Application
Amount of Waste Accepted	BAAQMD Condition # 4044, Part 1	Y		≤ 2500 tons/day and ≤ 897,500 tons/year	BAAQMD Condition # 4044, Part 17.a., b., c.	P/D	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, Landfill with Gas Collection System**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Total Amount of Waste and Cover Materials	BAAQMD Condition # 4044, Part 1	Y		$\leq 19.8 \text{ E6 yd}^3$ and $\leq 12.0 \text{ E6 tons}$	BAAQMD Condition # 4044, Part 17.c.	P/M	Records
H <sub>2</sub> S	BAAQMD 9-2-301	N		Property Line ground level limits $\leq 0.06 \text{ ppm}$ Averaged over 3 minutes and $\leq 0.03 \text{ ppm}$ Averaged over 60 minutes		N	
Lead	BAAQMD 11-1-302	Y		Ground level concentration $\leq 1.0 \mu\text{g}/\text{m}^3$ averaged over 24 hours		N	
Beryllium	BAAQMD 11-3-301 or 303	N		10 grams / 24 hours or $0.01 \mu\text{g}/\text{m}^3$ averaged over 30 days		N	
Serpentine Material	BAAQMD 11-14-301	N		Surfacing Material $\leq 5\%$ asbestos	BAAQMD 11-14-501	P/D	Records of Testing and Receipts
Toxic Air Contaminants in Collected Landfill Gas	BAAQMD Condition # 4044, Part 6	N		Benzene $\leq 2.5 \text{ ppmv}$ Trichloroethylene $\leq 3.0 \text{ ppmv}$ Perchloroethylene $\leq 3.0 \text{ ppmv}$ MethyleneChloride $\leq 20.0 \text{ ppmv}$ Vinyl Chloride $\leq 2.5 \text{ ppmv}$	BAAQMD Condition # 4044, Part 15	P/A	Annual Source Test

## **VII. Applicable Limits and Compliance Monitoring Requirements**

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann No. 1		N	
TSP	BAAQMD 6-310	Y		0.15 grains/dscf		N	
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	N		1000 ppmv as methane (component leak limit)	BAAQMD 8-34-501.6 and 8-34-503	P/Q	Quarterly Inspection and Records
TOC	SIP 8-34-301.1	Y		1000 ppmv as methane (component leak limit)	SIP 8-34-503	P/Q	Quarterly Inspection
TOC	BAAQMD 8-34-114	Y	Expires 7/1/02	90% removal by weight	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
TOC	SIP 8-34-114	Y <sup>1</sup>		90% removal by weight	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.4b	N	7/1/02	98% removal by weight OR < 120 ppmv dry @ 3% O <sub>2</sub> , expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 6117, Part 8	P/A	Initial and Annual Source Tests and Records
NMOC	40 CFR 60.752(b) (2)(iii)(B)	Y	10/6/02	98% removal by weight OR < 20 ppmv dry @ 3% O <sub>2</sub> , expressed as hexane	40 CFR 60.8 and 60.752(b) (2)(iii)(B) and 60.758(b)(2)	P/I	Initial Source Test and Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition # 6117, Part 7	Y		$\leq 126$ ppmv (dry) expressed as CH <sub>4</sub> and corrected to 15% O <sub>2</sub>	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
SO <sub>2</sub>	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: $\leq 0.5$ ppm for 3 minutes, $\leq 0.25$ ppm for 60 minutes & $\leq 0.05$ ppm for 24 hours		N	
SO <sub>2</sub>	BAAQMD 9-1-302	Y		300 ppm (dry)	BAAQMD Condition # 4044, Parts 16 and 17.m.	P/W, M, or Q (Monthly if 3 months data < 1300 ppm, Quarterly if 1 year of data < 1300 ppm)	Sulfur Analysis of landfill gas only
H <sub>2</sub> S	BAAQMD 9-2-301	N		Property Line ground level limits $\leq 0.06$ ppm Averaged over 3 minutes and $\leq 0.03$ ppm Averaged over 60 minutes		N	
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 4044, Part 7	Y		$\leq 1300$ ppmv	BAAQMD Condition # 4044, Parts 16 and 17.m.	P/W, M, or Q (Monthly if 3 months data < 1300 ppm, Quarterly if 1 year of data < 1300 ppm)	Sulfur Analysis of landfill gas only



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO <sub>x</sub>	BAAQMD 9-8-301.2	Y		Fossil Fuel Gas, Lean-Burn 140 ppmv dry @ 15% O <sub>2</sub>		N	
NO <sub>x</sub>	BAAQMD 9-8-302.1	Y		Waste Fuel Gas, Lean-Burn 140 ppmv dry @ 15% O <sub>2</sub>	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
NO <sub>x</sub>	BAAQMD Condition # 6117, Part 5	Y		≤ 78 ppmv (dry) expressed as NO <sub>2</sub> corrected to 15% O <sub>2</sub>	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
CO	BAAQMD 9-8-301.3	Y		Fossil Fuel Gas: 2000 ppmv dry @ 15% O <sub>2</sub>		N	
CO	BAAQMD 9-8-302.3	Y		Waste Fuel Gas: 2000 ppmv dry @ 15% O <sub>2</sub>	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
CO	BAAQMD Condition # 6117, Part 6	Y		≤ 283 ppmv (dry) corrected to 15% O <sub>2</sub>	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
Heat Input	BAAQMD Condition # 6117, Part 10	Y		Limits for each engine: ≤ 206.64 MM BTU/day And ≤ 75,423.6 MM BTU/year	BAAQMD Condition # 6117, Part 9, subparts a.-e.	P/D	Records
Emission Control System Shutdown Time	BAAQMD 8-34-113.2	N		240 hours/year	BAAQMD 8-34-501.2 and BAAQMD Condition # 6117, Part 9.a.	P/D	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Emission Control System Shutdown Time	SIP 8-34-113.2	Y <sup>1</sup>		12 hours/calendar month	SIP 8-34-501.2	P/D	Records
Emission Control System Startup Shutdown or Malfunction	40 CFR 60.755(e)	Y	10/6/02	≤ 1 hour per event	40 CFR 60.7(b), 60.757(f)(2) and (f)(3), and 60.758(e)	P/D	Records of occurrence and duration
Temperature of Combustion Zone					BAAQMD 8-34-501.3 and 8-34-507 (effective 7/1/02)	C	Temperature sensor and continuous recorder (effective 7/1/02)
Combustion Temperature	40 CFR 60.758(c) (1)(i)	Y	4/4/03	3-Hour Average Temperature No Less Than 28 °C below Average Temperature Recorded During Most Recent Complying Performance Test	60 CFR 60.756(b)(1) and 60.758(c)	C	Temperature sensor and continuous recorder
Natural Gas Usage	BAAQMD Condition # 6117, Part 3	Y		Prohibited when flare is operating and unless it is needed as supplemental fuel	BAAQMD Condition # 6117, Part 9.a.-c.	P/D	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Flow	BAAQMD 8-34-301 and 301.1; BAAQMD Condition # 6117, Parts 1 & 2	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD Condition # 6117, Part 4	C	Gas Flow Meter (per engine)
Gas Flow	BAAQMD 8-34-301 and 301.1; BAAQMD Condition # 6117, Parts 1 & 2	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD 8-34-501.10 and 508 (effective 7/1/02)	C	Gas Flow Meter and Recorder (every 15 minutes); effective 7/1/02
Gas Flow	SIP 8-34-301 and 301.4	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	SIP 8-34-501.1	P/D	Operating Records
Gas Flow	40 CFR 60.753(a) and (e)	Y	10/6/02	Vent all collected gases to a properly operating control system and operate control system at all times when gas is vented to it	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	C or P/M	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve & Lock and Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-4, S-5, S-6, S-7, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y	7/1/02	15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Records of occurrence and duration
Continuous Monitors	40 CFR 60.13(e)	Y		Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Records of occurrence and duration

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	Y		Ringelmann No. 1		N	
TSP	BAAQM D 6-310	Y		0.15 grains/dscf		N	
TOC (Total Organic Compounds Plus Methane)	BAAQM D 8-34-301.2	N		1000 ppmv as methane (component leak limit)	BAAQMD 8-34-501.6 and 8-34-503	P/Q	Quarterly Inspection and Records
TOC	SIP 8-34-301.1	Y		1000 ppmv as methane (component leak limit)	SIP 8-34-503	P/Q	Quarterly Inspection
Organic Compounds	BAAQM D 8-34-301.4a	N	Expires 7/1/02	97% removal by weight	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
Organic Compounds	SIP 8-34-301.3	Y <sup>1</sup>		97% removal by weight	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
Methane	BAAQM D 8-34-301.4a	N	Expires 7/1/02	97% removal by weight	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
Methane	SIP 8-34-301.3	Y <sup>1</sup>		97% removal by weight	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.4b	N	7/1/02	98% removal by weight OR < 120 ppmv dry @ 3% O <sub>2</sub> , expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 6117, Part 8	P/A	Initial and Annual Source Tests and Records
NMOC	40 CFR 60.752(b)(2)(iii)(B)	Y	10/6/02	98% removal by weight OR < 20 ppmv dry @ 3% O <sub>2</sub> , expressed as hexane	40 CFR 60.8 and 60.752(b)(2)(iii)(B) and 60.758(b)(2)	P/I	Initial Source Test and Records
POC	BAAQMD Condition # 6117, Part 7	Y		≤ 126 ppmv (dry) expressed as CH <sub>4</sub> and corrected to 15% O <sub>2</sub>	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
SO <sub>2</sub>	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes, ≤ 0.25 ppm for 60 minutes & ≤ 0.05 ppm for 24 hours		N	
SO <sub>2</sub>	BAAQMD 9-1-302	Y		300 ppm (dry)	BAAQMD Condition # 4044, Parts 16 and 17.m.	P/W, M, or Q (Monthly if 3 months data < 1300 ppm, Quarterly if 1 year of data < 1300 ppm)	Sulfur Analysis of landfill gas only

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H <sub>2</sub> S	BAAQMD 9-2-301	N		Property Line ground level limits $\leq 0.06$ ppm Averaged over 3 minutes and $\leq 0.03$ ppm Averaged over 60 minutes		N	
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 4044, Part 7	Y		$\leq 1300$ ppmv	BAAQMD Condition # 4044, Parts 16 and 17.m.	P/W, M, or Q (Monthly if 3 months data < 1300 ppm, Quarterly if 1 year of data < 1300 ppm)	Sulfur Analysis of landfill gas only
NO <sub>x</sub>	BAAQMD 9-8-301.2	Y		Fossil Fuel Gas, Lean-Burn 140 ppmv dry @ 15% O <sub>2</sub>		N	
NO <sub>x</sub>	BAAQMD 9-8-302.1	Y		Waste Fuel Gas, Lean-Burn 140 ppmv dry @ 15% O <sub>2</sub>	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
NO <sub>x</sub>	BAAQMD Condition # 6117, Part 5	Y		$\leq 78$ ppmv (dry) expressed as NO <sub>2</sub> corrected to 15% O <sub>2</sub>	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
CO	BAAQMD 9-8-301.3	Y		Fossil Fuel Gas: 2000 ppmv dry @ 15% O <sub>2</sub>		N	
CO	BAAQMD 9-8-302.3	Y		Waste Fuel Gas: 2000 ppmv dry @ 15% O <sub>2</sub>	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition # 6117, Part 6	Y		$\leq 283$ ppmv (dry) corrected to 15% O <sub>2</sub>	BAAQMD Condition # 6117, Part 8	P/A	Annual Source Test
Heat Input	BAAQMD Condition # 6117, Part 10	Y		Limits for each engine: $\leq 206.64$ MM BTU/day And $\leq 75,423.6$ MM BTU/year	BAAQMD Condition # 6117, Part 9.a.-e.	P/D	Records
Emission Control System Shutdown Time	BAAQMD 8-34-113.2	N		240 hours/year	BAAQMD 8-34-501.2 and BAAQMD Condition # 6117, Part 9.a.	P/D	Records
Emission Control System Shutdown Time	SIP 8-34-113.2	Y <sup>1</sup>		12 hours/calendar month	SIP 8-34-501.2	P/D	Records
Emission Control System Startup Shutdown or Malfunction	40 CFR 60.755(e)	Y	10/6/02	$\leq 1$ hour per event	40 CFR 60.7(b), 60.757(f)(2) and (f)(3), and 60.758(e)	P/D	Records of occurrence and duration



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Temperature of Combustion Zone					BAAQMD 8-34-501.3 and 8-34-507 (effective 7/1/02)	C	Temperature sensor and continuous recorder (effective 7/1/02)
Combustion Temperature	40 CFR 60.758(c) (1)(i)	Y	4/4/03	3-Hour Average Temperature No Less Than 28 °C below Average Temperature Recorded During Most Recent Complying Performance Test	60 CFR 60.756(b)(1) and 60.758(c)	C	Temperature sensor and continuous recorder
Natural Gas Usage	BAAQMD Condition # 6117, Part 3	Y		Prohibited when flare is operating and unless it is needed as supplemental fuel	BAAQMD Condition # 6117, Part 9.a.-c.	P/D	Records
Gas Flow	BAAQMD 8-34-301 and 301.1; BAAQMD Condition # 6117, Parts 1 & 2	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD Condition # 6117, Part 4	C	Gas Flow Meter (per engine)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Flow	BAAQMD 8-34-301 and 301.1; BAAQMD Condition # 6117, Parts 1 & 2	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD 8-34-501.10 and 508 (effective 7/1/02)	C	Gas Flow Meter and Recorder (every 15 minutes); effective 7/1/02
Gas Flow	SIP 8-34-301 and 301.4	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	SIP 8-34-501.1	P/D	Operating Records
Gas Flow	40 CFR 60.753(a) and (e)	Y	10/6/02	Vent all collected gases to a properly operating control system and operate control system at all times when gas is vented to it	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	C or P/M	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve and Lock and Records
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y	7/1/02	15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Records of occurrence and duration

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII-C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-9, S-10, S-11, S-12, Lean Burn Internal Combustion Engines and Generator Sets**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Continuous Monitors	40 CFR 60.13(e)	Y		Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Records of occurrence and duration

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – D**  
**Applicable Limits and Compliance Monitoring Requirements**  
**A2 – LANDFILL GAS FLARE**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Heat Input	BAAQMD Condition # 4044, Part 21	Y		$\leq 1250.4$ MM BTU/day and $\leq 456,396$ MM BTU/year	BAAQMD Condition # 4044, Part 21	P/M	Records
Gas Flow	BAAQMD 8-34-301, 301.1, and 301.3 and BAAQMD Condition # 4044, Parts 8, 9	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD Condition # 4044, Parts 11, 12, and 17.j.-k.	C	Gas Flow Meter, Alarms, and Total Flow Rate Records
Gas Flow	BAAQMD 8-34-301, 301.1, and 301.3 and BAAQMD Condition # 4044, Parts 8, 9	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD 8-34-501.10 and 508 (effective 7/1/02)	C	Gas Flow Meter and Recorder (every 15 minutes); effective 7/1/02
Gas Flow	SIP 8-34-301, 301.2, and 301.4	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	SIP 8-34-501.2 and BAAQMD Condition # 4044, Parts 11 & 12	P/D	Operating Records, Flow Meter, and Alarms

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – D**  
**Applicable Limits and Compliance Monitoring Requirements**  
**A2 – LANDFILL GAS FLARE**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Flow	40 CFR 60.752 (b)(2)(iii) and 60.753(e) and (f)	Y	10/6/02	Vent all collected gases to a properly operating control system and operate control system at all times when gas is vented to it	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	C or P/M	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve and Lock and Records
Collection and Control Systems Shutdown Time	BAAQMD 8-34-113.2	N		240 hours/year	BAAQMD 8-34-501.2 and BAAQMD Condition # 4044, Part 17.i.	P/D	Operating Records
Collection and Control Systems Shutdown Time	SIP 8-34-113.2	Y <sup>1</sup>		12 hours/calendar month	SIP 8-34-501.2	P/D	Operating Records
Control System Startup Shutdown or Malfunction	40 CFR 60.755(e)	Y	10/6/02	1 hour per event	40 CFR 60.7(b), 60.757(f)(2) and (f)(3)	P/D	Operating Records (all occurrences and duration of each)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – D**  
**Applicable Limits and Compliance Monitoring Requirements**  
**A2 – LANDFILL GAS FLARE**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC	BAAQMD 8-34-301.3a	N	Expires 7/1/02	98% removal by weight	BAAQMD Condition # 4044, Parts 14 and 17.m.	P/A	Annual Source Test
TOC	SIP 8-34-301.2	Y		98% removal by weight	BAAQMD Condition # 4044, Parts 14 and 17.m.	P/A	Annual Source Test
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.3b	N	7/1/02	98% removal by weight OR < 30 ppmv dry @ 3% O <sub>2</sub> , expressed as methane	BAAQMD 8-34-412 and BAAQMD Condition # 4044, Parts 14 and 17.m.	P/A	Initial and Annual Source Tests
NMOC	40 CFR 60.752(b)(2)(iii)(B)	Y	10/6/02	98% removal by weight OR < 20 ppmv dry @ 3% O <sub>2</sub> , expressed as hexane	40 CFR 60.8 and 60.752(b)(2)(iii)(B) and 60.758 (b)(2)(ii)	P	Initial Source Test and Records
Temperature of Combustion Zone (CT)	BAAQMD Condition # 4044, Part 10	N		CT ≥ 1400 °F	BAAQMD 8-34-501.3 and 507, SIP 8-34-501.3 and BAAQMD Condition # 4044, Parts 13 and 17.l.	C	Temperature Sensor and Recorder (continuous)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – D**  
**Applicable Limits and Compliance Monitoring Requirements**  
**A2 – LANDFILL GAS FLARE**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Temperature of Combustion Zone (CT)	40 CFR 60.758 (c)(1)(i)	Y	10/6/02	CT (3-hour average) $\geq (CT_{PF} - 28^{\circ}C)$ , where $CT_{PF}$ is the average combustion temperature during the most recent complying performance test	40 CFR 60.756(b)(1) and 60.758 (b)(2)(i)	C	Temperature Sensor and Recorder (measured every 15 minutes and averaged over performance test time period and 3-hours)
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	N		1000 ppmv as methane (component leak limit)	BAAQMD 8-34-501.6 and 503	P/Q	Quarterly Inspection of collection and control system components with OVA and Records
TOC	SIP 8-34-301.1	Y		1000 ppmv as methane (component leak limit)	SIP 8-34-503	P/Q	Quarterly Inspection with OVA

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – D**  
**Applicable Limits and Compliance Monitoring Requirements**  
**A2 – LANDFILL GAS FLARE**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann No. 1	BAAQMD 8-34-501.3 and 507, SIP 8-34-501.3 and BAAQMD Condition # 4044, Parts 13 and 17.1.	C	Temperature Sensor and Recorder (continuous)
TSP	BAAQMD 6-310	Y		0.15 grains/dscf		N	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		Property Line Ground Level Limits $\leq$ 0.5 ppm for 3 minutes and $\leq$ 0.25 ppm for 60 minutes and $\leq$ 0.05 ppm for 24 hours		N	
SO <sub>2</sub>	BAAQMD 9-1-302	Y		$\leq$ 300 ppm (dry)	BAAQMD Condition # 4044, Parts 16 and 17.m.	P/W, M, or Q (Monthly if 3 months data < 1300 ppm, Quarterly if 1 year of data < 1300 ppm)	Sulfur Analysis of landfill gas only
H <sub>2</sub> S	BAAQMD 9-2-301	N		Property Line ground level limits $\leq$ 0.06 ppm Averaged over 3 minutes and $\leq$ 0.03 ppm Averaged over 60 minutes		N	



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – D**  
**Applicable Limits and Compliance Monitoring Requirements**  
**A2 – LANDFILL GAS FLARE**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 4044, Part 7	Y		≤ 1300 ppmv	BAAQMD Condition # 4044, Parts 16 and 17.m.	P/W, M, or Q (Monthly if 3 months data < 1300 ppm, Quarterly if 1 year of data < 1300 ppm)	Sulfur Analysis of landfill gas only
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y	7/1/02	15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors
Continuous Monitors	40 CFR 60.13(e)	Y		Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Operating Records for All Continuous Monitors

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

## VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate
BAAQMD 8-2-301		Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
BAAQMD 8-34-114	Energy Recovery Device and Emission Control System	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD 8-34-301.2	Collection and Control System Leak Limitations	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-301.3	Limits for Flares	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD 8-34-301.4	Limits for Other Emission Control Systems	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD 8-34-303	Landfill Surface Requirements	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-305.1	Wellhead Gauge Pressure	APCO Approved Device
BAAQMD 8-34-305.2	Wellhead Temperature	APCO Approved Device
BAAQMD 8-34-305.3	Wellhead Nitrogen	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD 8-34-305.4	Wellhead Oxygen	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources

## VIII. Test Methods

**Table VIII**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-34-412	Compliance Demonstration Test	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
SIP 8-34-114 <sup>1</sup>	Energy Recovery Device and Emission Control System	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
SIP 8-34-301.1	Collection and Control Systems Leak Limitations	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
SIP 8-34-301.2 <sup>1</sup>	Flare Limit	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
SIP 8-34-301.3 <sup>1</sup>	Energy Recovery Device or Emission Control System Limit	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
SIP 8-34-303		EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-40-116.2	Organic Content Limit for Small Volume Exemption	BAAQMD 8-40-601 and EPA Reference Methods 8015B and 8021B
BAAQMD 8-40-301	Limits on Uncontrolled Aeration of Contaminated Soil	BAAQMD 8-40-601 and EPA Reference Methods 8015B and 8021B; or EPA Reference Method 21
SIP 8-40-301 <sup>1</sup>	Limits on Uncontrolled Aeration of Contaminated Soil	BAAQMD 8-40-601 and EPA Reference Methods 8010 or 8015
BAAQMD 9-1-301	Limitations on Ground Level Concentrations (SO <sub>2</sub> )	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-1-302	General Emission Limitation (SO <sub>2</sub> )	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides, Integrated Sample
BAAQMD 9-2-301	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-8-301.2	Fossil Derived Fuel Gas, NOx Limits for Lean Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

## VIII. Test Methods

**Table VIII**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-8-301.3	Fossil Derived Fuel Gas, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.1	Waste Derived Fuel Gas NOx Limits for Lean Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.3	Waste Derived Fuel Gas CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 11-1-302	Ground Level Concentration Limit Without Background (lead)	Manual of Procedures, Volume VI, Part 2, Atmospheric Sampling of Ground Level Lead Concentrations, Sections 2.1 General and 2.2 Mass Emission Limitations
BAAQMD 11-3-301	Emission Limitation (beryllium)	Test waste in accordance with EPA SW-846 and calculate emissions in accordance with EPA AP-42
BAAQMD 11-14-301	Prohibition of Use for Surfacing Operations (asbestos serpentine)	ARB Test Method 435, Determination of Asbestos Content of Serpentine Aggregate
40 CFR 60.8	Performance Tests	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
40 CFR 60.752 (b)(2)(iii)(B)	NMOC Outlet Concentration and Destruction Efficiency Limits	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
40 CFR 60.753(b)	Wellhead Pressure	APCO Approved Device
40 CFR 60.753(c)	Temperature, N <sub>2</sub> , and O <sub>2</sub> concentration in wellhead gas	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources

## VIII. Test Methods

**Table VIII**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60.753(d)	Methane Limit at Landfill Surface	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD Condition # 4044		
Part 2	Ringelmann No. 0.5 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
Part 6	Toxic Air Contaminants in Landfill Gas	GC Analysis for all compounds listed in AP-42 Chapter 2.4
Part 7	Total Sulfur Content in Landfill Gas	APCO Approved Draeger Tube Method
Part 10	Combustion Temperature	APCO Approved Continuous Temperature Monitor
Part 18	Handling Procedures for Soil Containing Volatile Organic Compounds	EPA Reference Methods 8015B, 8021B, or any method determined to be equivalent by the US EPA and approved by the APCO
Part 19	Total Carbon Emission Limit for Use or Disposal of Soil Containing VOCs	VOC Content as determined by EPA Reference Methods 8015B, 8021B (or any method determined to be equivalent by the US EPA and approved by the APCO) and converted to Total Carbon as defined in BAAQMD Regulation 8-2-202. Total Carbon Emissions determined by APCO approved equation described in BAAQMD Condition #4044, Part 19.c.
Part 21	Flare Heat Input Limits	APCO approved calculation procedure described in BAAQMD Condition # 4044, Part 21
BAAQMD Condition # 6117		
Part 5	NO <sub>x</sub> Limit	Manual of Procedures, Volume IV, Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 20
Part 6	CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 10
Part 7	POC Limit	Manual of Procedures, Volume IV, ST-14, Oxygen, Continuous Sampling, and either Manual of Procedures, Volume IV, ST-7, Organic Compounds OR EPA Reference Method 18, 25, 25A, or 25C
Part 10	Internal Combustion Engine Heat Input Limits	APCO approved calculation procedure described in BAAQMD Condition # 6117, Part 9.e.

## **VIII. Test Methods**

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

## **IX. GLOSSARY**

### **BAAQMD**

Bay Area Air Quality Management District

### **BACT**

Best Available Control Technology

### **CAA**

The federal Clean Air Act

### **CAAQS**

California Ambient Air Quality Standards

### **CEQA**

California Environmental Quality Act

### **CFR**

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

### **CO**

Carbon Monoxide

### **Cumulative Increase**

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

### **District**

The Bay Area Air Quality Management District

### **EPA**

The federal Environmental Protection Agency.

### **Excluded**

Not subject to any District Regulations.

### **Federally Enforceable, FE**

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPS), Part 63 (HAP), and Part 72 (Permits Regulation, Acid

## **IX. Glossary**

Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

### **HAP**

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

### **Major Facility**

A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

### **MFR**

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

### **MOP**

The District's Manual of Procedures.

### **NAAQS**

National Ambient Air Quality Standards

### **NESHAPS**

National Emission Standards for Hazardous Air Pollutants. Contained in 40 CFR Part 61.

### **NMHC**

Non-methane Hydrocarbons (same as NMOC).

### **NMOC**

Non-methane Organic Compounds (same as NMHC).

### **NO<sub>x</sub>**

Oxides of nitrogen.

### **NSPS**

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by both 40 CFR Part 60 and District Regulation 10.

### **NSR**



## **IX. Glossary**

**New Source Review.** A federal program for preconstruction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

### **Offset Requirement**

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO<sub>x</sub>, PM<sub>10</sub>, and SO<sub>2</sub>.

### **Phase II Acid Rain Facility**

A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to Titles IV and V of the Clean Air Act.

### **POC**

Precursor Organic Compounds

### **PM**

Total Particulate Matter

### **PM<sub>10</sub>**

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

### **PSD**

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

### **SIP**

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Federal Clean Air Act.

### **SO<sub>2</sub>**

Sulfur dioxide

### **THC**

Total Hydrocarbons include all NMHC plus methane (same as TOC).

## **IX. Glossary**

### **Title V**

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

### **TOC**

Total Organic Compounds include all NMOC plus methane (same as THC).

### **TRMP**

Toxic Risk Management Policy.

### **TSP**

Total Suspended Particulate

### **VOC**

Volatile Organic Compounds

### **Units of Measure:**

bhp	=	brake-horsepower
Btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m <sup>2</sup>	=	square meter
min	=	minute
MM	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

## **X. APPLICABLE STATE IMPLEMENTATION PLAN**

See Attachments